NOKIA

7450 ETHERNET SERVICE SWITCH
7750 SERVICE ROUTER
7950 EXTENSIBLE ROUTING SYSTEM

MD-CLI COMMAND REFERENCE GUIDE
RELEASE 16.0.R5

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Table of Contents

1 MD-CLI Command Reference 5
2 aaa Commands 15
3 bfd Commands 69
4 bmp Commands 73
5 call-trace Commands 81
6 card Commands 89
7 cflowd Commands 133
8 chassis Commands 149
9 connection-profile Commands 157
10 connection-profile-vlan Commands 159
11 eth-cfm Commands 163
12 filter Commands 173
13 fwd-path-ext Commands 325
14 ipsec Commands 331
15 isa Commands 351
16 lag Commands 377
17 log Commands 407
18 macsec Commands 861
19 mcac Commands 867
20 mirror Commands 875
21 multicast-management Commands 893

22 oam-pm Commands 961
23 openflow Commands 1009
24 policy-options Commands 1019
25 port Commands 1063
26 port-policy Commands 1197
27 port-xc Commands 1199
28 pw-port Commands 1203
29 python Commands 1213
30 qos Commands 1229
31 redundancy Commands 1527
32 router Commands 1561
33 routing-options Commands 2389
34 saa Commands 2397
35 service Commands 2409
36 sfm Commands 4201
37 subscriber-mgmt Commands 4203
38 system Commands 4609
39 test-oam Commands 4879
40 vrrp Commands 4885
41 Standards and Protocol Support 4899

1 MD-CLI Command Reference

This document describes the commands available in the MD-CLI that can be used to manage the router.

For a list of unsupported features by platform and chassis, refer to the SR OS 16.0.R*x* Software Release Notes, part number 3HE 14220 000*x* TQZZA.

Command outputs shown in this guide are examples only; actual output may differ depending on supported functionality and user configuration.

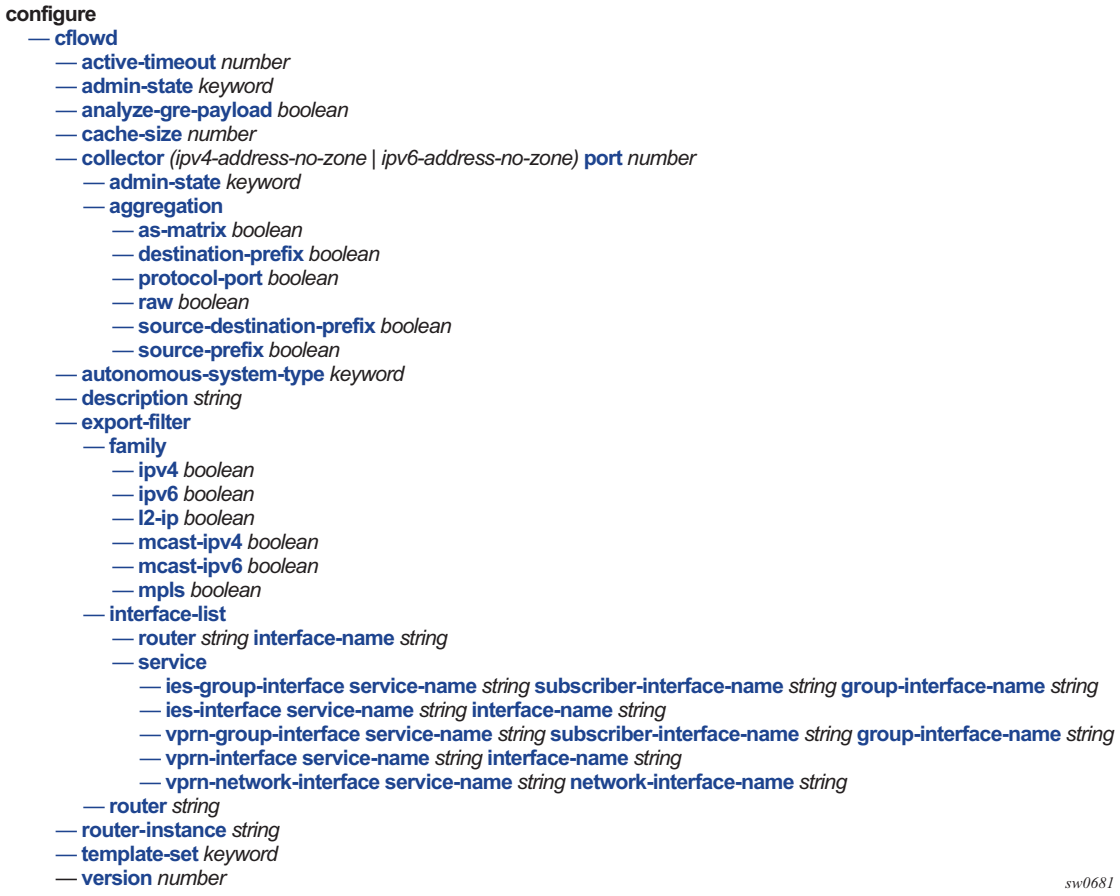
Note: This guide generically covers Release 16.0.R*x* content and may contain some content that will be released in later maintenance loads. Refer to the SR OS 16.0.R*x* Software Release Notes, part number 3HE 14220 000*x* TQZZA, for information on features supported in each load of the Release 16.0.R*x* software.

To access the configuration statements within the MD-CLI, the MD-CLI engine must be enabled and the configuration mode made available. For information about using the MD-CLI, see the *MD-CLI User Guide*.

1.1 MD-CLI Tree Hierarchy

The configuration branch of the MD-CLI shows the commands and parameters (also known as elements) that are available, shown in a hierarchical structure as in Figure 1.

Figure 1 **MD-CLI Configuration Tree Example**



The **configure** context is the root level of the configuration branch within the configuration mode in the MD-CLI. Each chapter of this guide describes a configuration branch in the MD-CLI configuration tree.

Command names are linked to their command descriptions. Some commands require one or more key commands to be entered with the command. For example, the **collector** command has two keys which must be entered: the IP address and the port number. The key name for the IP address (**ip-address**) is optional, however, the key name **port** must be entered before the port number.

— **collector (***ipv4-address-no-zone* **|** *ipv6-address-no-zone***) port** *number*

The command description indicates the required syntax for each command. See MD-CLI Command Descriptions for more information.

collector [**ip-address**] (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Italicized names after a command or parameter name indicate the parameter type. The parameter types include (but are not limited to):

- Boolean (true and false values)
- keyword (enumerated values)
- string
- number
- IPv4 address
- IPv6 address
- MAC address

The **summary-only** parameter, for example, requires a Boolean value. The **autonomous-system** parameter requires a number. For more information about the input values, click on the command or parameter name from the MD-CLI tree to be linked to the command description.

— **summary-only** *boolean*
— **autonomous-system** *number*

A parameter type may also be a combination of different base types. These parameters are displayed in the MD-CLI tree with the individual parameter types enclosed in round brackets (()), separated by a pipe (|). For example, the **indirect** parameter can be configured with either an IPv4 address or IPv6 address:

— **indirect (***ipv4-address-no-zone* **|** *ipv6-address-no-zone***)**

1.2 MD-CLI Command Descriptions

The command syntax is shown in the command description, where the command is displayed in bold, followed by any key names and a type. From the MD-CLI tree, the **configure log accounting-policy** command shows that the key for the command is a number:

— **log**
    — **accounting-policy** *number*

The command description for **accounting-policy** shows that the key for the command is a policy identifier:

accounting-policy [**policy-id**] *number*

The square brackets ([]) indicate that the **policy-id** key name is optional. From the **policy-id** command description, the range of the identifier is a number from 1 to 99. Therefore, when using the **accounting-policy** command, the following inputs are acceptable:

```
accounting-policy policy-id 15
accounting-policy 25
accounting-policy 1
accounting-policy policy-id 99
```

Table 1 describes the fields that may be displayed for a command. Not all fields are applicable for all commands.

Table 1 **Command Descriptions Fields**

Field	Description
Element Name	Name of the element (command or parameter) and its syntax
Context	Full configuration path to the command
Description	Summary description of the element
String Length	For string elements, the range of the number of characters allowed
Range	For number elements, the range of allowed values
Default	Default value for the element
Units	Base unit type of the element
Options	Enumerated values allowed for the element
Reference	Reference to an element instance in the configuration, needed before the configuration is considered valid
Min./Max. Elements	For lists and leaf-lists, the minimum or maximum number of instances for this element
Introduced	Release in which the element was introduced
Notes	Information about special attributes of the element, including whether the element is: • a key for an element • mandatory • ordered by user (instead of by the system) • part of a choice of elements

A description of the element is also available from the online help for the element. For information about using the online help in the MD-CLI, see the *MD-CLI User Guide*.

Note: Some SR OS features are platform-specific, and therefore, the feature commands may not be available or visible on all platforms.

All options for enumerated types and numerical ranges are listed in the MD-CLI command descriptions, however, not all options or ranges are valid on all platforms.

1.3 Operational Root and Global Commands

The commands in Table 2 are available at the operational root level of the MD-CLI hierarchy.

Table 2 **Operational Root Commands**

Command	Description
admin	Enter the administrative context for system operations
clear	Clear statistics or reset operational state
configure	Enter the configuration context
environment	Enter the environment configuration context
show	Show operational information
tools	Enter the tools context for troubleshooting and debugging

The global commands in Table 3 are available at from various levels of the MD-CLI hierarchy.

Table 3 **Global Commands**

Command	Description
back	Move back one or more levels
delete	Delete an element from the candidate datastore
edit-config	Enter a candidate configuration mode
exec	Execute commands from a file

Table 3 **Global Commands (Continued)**

Command	Description
exit	Return to the previous context or to the operational root
history	Show the most recently entered commands
logout	Exit the CLI session
pwc	Show the present working context
quit-config	Leave the candidate configuration mode
top	Move to the top level of the context
tree	Show the command tree under the present working context

Table 4 lists configuration commands that are available in configuration mode.

Table 4 **Configuration Commands**

Command	Description
commit	Commit changes to the running datastore
compare	Show changes between datastores
discard	Discard changes in the candidate datastore
info	Show the running configuration from the present working context
load	Load a configuration from a file
rollback	Rollback to a previous configuration
update	Update the candidate baseline
validate	Validate changes in the candidate datastore

1.4 Environment Commands

The following portion of the MD-CLI command tree displays commands related to the **environment** variables under the context **configure system management-interface cli md-cli**.

```
— environment
    — command-completion
        — enter boolean
```

- **space** *boolean*
- **tab** *boolean*

— **console**
- **length** *number*
- **width** *number*

— **message-severity-level**
- **cli** *keyword*

— **more** *boolean*

— **progress-indicator**
- **admin-state** *keyword*
- **delay** *number*
- **type** *keyword*

— **prompt**
- **context** *boolean*
- **newline** *boolean*
- **timestamp** *boolean*
- **uncommitted-changes-indicator** *boolean*

— **time-display** *keyword*

Table 5 provides a brief description of the **environment** commands.

Table 5 **Environment Commands**

Environment command	Description
enter *boolean*	Use command completion for Enter. Default is **true**.
space *boolean*	Use command completion for Spacebar. Default is **true**.
tab *boolean*	Use command completion for Tab. Default is **true**.
length *number*	Number of lines displayed in the console window. Range is 24 to 512. Default is 24.
width *number*	Number of columns displayed in the console window. Range is 50 to 512. Default is 80.
cli *keyword*	Message type to display. If set to **warning**, INFO messages are suppressed. Default is **info**.
more *boolean*	Use pagination for the output text. Default is **true**.
admin-state *keyword*	Administrative state of the progress indicator. Default is **enable**.
delay *number*	Delay interval before the progress indicator is displayed. Default is 500 ms.

Table 5 **Environment Commands (Continued)**

Environment command	Description
type *keyword*	Progress indicator type. Current mandatory type is **dots**.
context *boolean*	Show the current context in the first prompt line. Default is **true**.
newline *boolean*	Use a blank line before the first prompt line. Default is **true**.
timestamp *boolean*	Show the time before the first prompt line. Default is **false**.
uncommitted-changes-indicator *boolean*	Show the change indicator (*) in the first prompt line. Default is **true**.
time-display *keyword*	Show the time (if **timestamp** is set to **true**) as UTC or local (as defined in **configure system time**). Default is **local**.

1.5 MD-CLI Admin Commands

The following tree shows the available commands in the administrative branch in the MD-CLI. The **admin** commands are available only in the operational mode of the MD-CLI, or can be executed with **/admin** from a configuration branch.

```
— admin
    — disconnect
        — session-id session-id
    — reboot
        — [card] keyword
        — now
    — redundancy
        — force-switchover
            — now
    — save
        — [url] string
    — show
        — configuration
    — support-mode
```

Table 6 describes the available commands in the MD-CLI **admin** tree.

Table 6 **MD-CLI Admin Commands**

Admin command	Description
disconnect session-id *session-id*	Disconnect a user from a session, identified by a session identifier. The session identifiers can be obtained from the **show system management-interface datastore-locks detail** command.
reboot [**card**] [(**active** | **standby** | **upgrade**)] [**now**]	Reboot the active or standby CPM, or force an upgrade of the system boot ROMs. The **now** option forces a reboot immediately without an interactive confirmation.
redundancy force-switchover [**now**]	Force a switchover to the standby CPM card. The primary CPM reloads its software images and becomes the secondary CPM. The **now** option forces the switchover immediately.
save [[**url**] *string*]	Save the running configuration to a configuration file. If a filename is not specified, the location is derived from bof.cfg. **Note**: Classic CLI **admin save** is blocked when the management interface configuration mode is **model-driven**.
show configuration	Show the current running configuration.
support-mode	Enable the **shell** and **kernel** commands. **Note**: To disable this command, log out of the CLI session, or disable in the classic CLI using **admin no enable-tech**.

Note: Other CLI commands such as **clear**, **show**, and **tools**, are available in the MD-CLI. These commands are the same as in the classic CLI and are described in the appropriate SR OS documentation guides.

2 aaa Commands

configure
- **aaa**
  - **diameter**
    - **node** *string*
      - **connection-timer** *number*
      - **description** *string*
      - **ipv4-source-address** *ipv4-unicast-address*
      - **ipv6-source-address** *ipv6-unicast-address*
      - **origin-realm** *string*
      - **peer index** *number*
        - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **admin-state** *keyword*
        - **connection-timer** *number*
        - **destination-host** *string*
        - **preference** *number*
        - **watchdog-timer** *number*
      - **python-policy** *string*
      - **router-instance** *string*
    - **peer-policy** *string*
      - **applications**
        - **gx** *boolean*
        - **gy** *boolean*
        - **nasreq** *boolean*
      - **connection-timer** *number*
      - **description** *string*
      - **ipv4-source-address** *ipv4-unicast-address*
      - **ipv6-source-address** *ipv6-unicast-address*
      - **origin-host** *string*
      - **origin-realm** *string*
      - **peer** *string*
        - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **admin-state** *keyword*
        - **connection-timer** *number*
        - **destination-host** *string*
        - **destination-realm** *string*
        - **preference** *number*
        - **statistics**
        - **transaction-timer** *number*
        - **transport**
          - **port-number** *number*
        - **watchdog-timer** *number*
      - **proxy**
        - **admin-state** *keyword*
        - **local-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **mcs-peer**
          - **address** *string*
          - **sync-tag** *string*
        - **router-instance** *string*
        - **statistics**
      - **python-policy** *string*

- **role** *keyword*
- **router-instance** *string*
- **transaction-timer** *number*
- **vendor-support** *diam-vendor-support*
- **watchdog-timer** *number*

radius
- **acct-on-off-group** *string*
  - **description** *string*
- **coa-port** *number*
- **isa-policy** *string*
  - **accounting**
    - **include-attributes**
      - **acct-delay-time** *boolean*
      - **acct-triggered-reason** *boolean*
      - **called-station-id** *boolean*
      - **calling-station-id** *boolean*
      - **circuit-id** *boolean*
      - **class** *boolean*
      - **dhcp-options** *boolean*
      - **dhcp-vendor-class-id** *boolean*
      - **frame-counters** *boolean*
      - **framed-ip-address** *boolean*
      - **framed-ip-netmask** *boolean*
      - **framed-ipv6-prefix** *boolean*
      - **hardware-timestamp** *boolean*
      - **ipv6-address** *boolean*
      - **mac-address** *boolean*
      - **multi-session-id** *boolean*
      - **nas-identifier** *boolean*
      - **nas-ip-address** *boolean*
      - **nas-port** *boolean*
      - **nas-port-id** *boolean*
      - **nas-port-type** *boolean*
      - **nat-inside-service-id** *boolean*
      - **nat-outside-ip-address** *boolean*
      - **nat-outside-service-id** *boolean*
      - **nat-port-range-block** *boolean*
      - **nat-subscriber-string** *boolean*
      - **octet-counters** *boolean*
      - **proxied-subscriber-data** *boolean*
      - **release-reason** *boolean*
      - **remote-id** *boolean*
      - **rssi** *boolean*
      - **session-time** *boolean*
      - **subscriber-id** *boolean*
      - **toserver-dhcp6-options** *boolean*
      - **ue-creation-type** *boolean*
      - **user-name** *boolean*
      - **wlan-ssid-vlan** *boolean*
      - **xconnect-tunnel-home-address** *boolean*
      - **xconnect-tunnel-local-ipv6-address** *boolean*
      - **xconnect-tunnel-remote-ipv6-address** *boolean*
      - **xconnect-tunnel-service** *boolean*
      - **xconnect-tunnel-type** *boolean*

- **nat-periodic-update**
  - **interval** *number*
  - **rate-limit** (*number* | *keyword*)
- **update-triggers**
  - **address-state** *boolean*
- **authentication**
- **include-attributes**
  - **called-station-id** *boolean*
  - **calling-station-id** *boolean*
  - **circuit-id** *boolean*
  - **dhcp-vendor-class-id** *boolean*
  - **framed-ip-address** *boolean*
  - **ipv6-address** *boolean*
  - **mac-address** *boolean*
  - **nas-identifier** *boolean*
  - **nas-ip-address** *boolean*
  - **nas-port** *boolean*
  - **nas-port-id** *boolean*
  - **nas-port-type** *boolean*
  - **remote-id** *boolean*
  - **toserver-dhcp-options** *boolean*
  - **toserver-dhcp6-options** *boolean*
  - **wlan-ssid-vlan** *boolean*
  - **xconnect-tunnel-home-address** *boolean*
- **description** *string*
- **nas-ip-address-origin** *keyword*
- **password** *encrypted-leaf*
- **python-policy** *string*
- **servers**
  - **access-algorithm** *keyword*
  - **router-instance** *string*
  - **server** *number*
    - **admin-state** *keyword*
    - **ip-address** *ipv4-unicast-address*
    - **purpose**
      - **accounting**
        - **udp-port** *number*
      - **authentication**
        - **udp-port** *number*
      - **coa**
        - **udp-port** *number*
    - **secret** *encrypted-leaf*
  - **source-address-range** *ipv4-unicast-address*
  - **timeout** *number*
  - **total-tries** *number*
- **user-name**
  - **format** *keyword*
  - **mac-format** *keyword*
- **l2tp-accounting-policy** *string*
- **accounting-type**
  - **session** *boolean*
  - **tunnel** *boolean*
- **acct-tunnel-connection-fmt** *string*
- **description** *string*

- **include-radius-attribute**
  - **calling-station-id** *boolean*
  - **nas-identifier** *boolean*
  - **nas-port**
    - **bit-spec** *binary-specification*
  - **nas-port-id**
    - **prefix-string** *string*
    - **suffix** *keyword*
  - **nas-port-type**
    - **type** (*keyword* | *number*)
  - **radius-server-policy** *string*
- **route-downloader** *string*
  - **admin-state** *keyword*
  - **base-user-name** *string*
  - **default-metric** *number*
  - **default-tag** *number*
  - **description** *string*
  - **download-interval** *number*
  - **max-routes** *number*
  - **password** *encrypted-leaf*
  - **radius-server-policy** *string*
  - **retry-interval**
    - **max** *number*
    - **min** *number*
- **server-policy** *string*
  - **acct-on-off**
    - **monitor** *string*
    - **oper-state-change**
      - **group** *string*
  - **description** *string*
  - **python-policy** *string*
  - **servers**
    - **access-algorithm** *keyword*
    - **buffering**
      - **acct-interim**
        - **lifetime** *number*
        - **max** *number*
        - **min** *number*
      - **acct-stop**
        - **lifetime** *number*
        - **max** *number*
        - **min** *number*
    - **health-check**
      - **down-timeout** *number*
      - **test-account**
        - **admin-state** *keyword*
        - **interval** *number*
        - **password** *encrypted-leaf*
        - **user-name** *string*
    - **hold-down-time** *number*
    - **ipv6-source-address** *ipv6-address*
    - **retry-count** *number*
    - **router-instance** *string*
    - **server** *number*

- **server-name** *string*
- **source-address** *ipv4-address*
- **stickiness** *boolean*
- **timeout** *number*

- **wpp**
  - **portal-group** *string*
    - **admin-state** *keyword*
    - **description** *string*
    - **portal** *string* **name** *string*

2.1 aaa Command Descriptions

aaa

Context	**configure**
Description	Enter the aaa context
Introduced	16.0.R1

diameter

Context	**configure aaa**
Description	Enter the diameter context
Introduced	16.0.R1

node [origin-host] *string*

Context	**configure aaa diameter**
Description	Enter the node context
Max. Elements	32
Introduced	16.0.R1

[origin-host] *string*

Context	**configure aaa diameter node** *string*
Description	Origin-host name.
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is part of a list key

connection-timer *number*

Context	**configure aaa diameter node** *string*
Description	The value of the connection-timer that determines how frequent connection will be attempted towards a peer without an active transport connection.
Range	1 to 1000
Default	30
Units	seconds
Introduced	16.0.R1

description *string*

Context	**configure aaa diameter node** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R1

ipv4-source-address *ipv4-unicast-address*

Context	**configure aaa diameter node** *string*
Description	Source address used to connect to IPv4 peers.
Introduced	16.0.R1

ipv6-source-address *ipv6-unicast-address*

Context	**configure aaa diameter node** *string*
Description	Source address used to connect to IPv6 peers.
Introduced	16.0.R1

origin-realm *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa diameter node** *string*
Description	Origin-realm name.
String Length	1 to 80
Introduced	16.0.R1

peer index *number*

Context	**configure aaa diameter node** *string*
Description	Enter the peer context
Max. Elements	5
Introduced	16.0.R1

index *number*

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	Index of this peer within the Node.
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	Address of the peer.
Introduced	16.0.R1

admin-state *keyword*

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	Administrative state of the Diameter peer.
Default	disable
Options	enable, disable
Introduced	16.0.R1

connection-timer *number*

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	The value of the connection-timer that determines how frequent connection will be attempted towards a peer without an active transport connection.
Range	1 to 1000
Units	seconds
Introduced	16.0.R1

destination-host *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	Destination-host name
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is mandatory

preference *number*

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	Preference of this peer, lower is more preferred.
Range	1 to 100
Default	50
Introduced	16.0.R1

watchdog-timer *number*

Context	**configure aaa diameter node** *string* **peer index** *number*
Description	Value of the watchdog timer.
Range	1 to 1000
Units	seconds
Introduced	16.0.R1

python-policy *string*

Context	**configure aaa diameter node** *string*
Description	Python policy applied to incoming and outgoing Diameter messages.
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

router-instance *string*

Context	**configure aaa diameter node** *string*
Description	Router in which this node connects to its peers.
Default	Base
Introduced	16.0.R1

peer-policy [name] *string*

Context	**configure aaa diameter**
Description	Enter the peer-policy context
Max. Elements	32
Introduced	16.0.R4

[name] *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Diameter peer policy name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

applications

Context	**configure aaa diameter peer-policy** *string*
Description	Enter the applications context
Introduced	16.0.R4

gx *boolean*

Context	**configure aaa diameter peer-policy** *string* **applications**
Description	Advertise Gx application support in CER messages
Default	false
Introduced	16.0.R4

gy *boolean*

Context	**configure aaa diameter peer-policy** *string* **applications**
Description	Advertise Gy application support in CER messages
Default	false
Introduced	16.0.R4

nasreq *boolean*

Context	**configure aaa diameter peer-policy** *string* **applications**
Description	Advertise NASREQ application support in CER messages
Default	false
Introduced	16.0.R4

connection-timer *number*

Context	**configure aaa diameter peer-policy** *string*
Description	Frequency of attempts to open a TCP connection to each configured peer in the Diameter peer policy
Range	1 to 1000
Default	30
Units	seconds
Introduced	16.0.R4

description *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

ipv4-source-address *ipv4-unicast-address*

Context	**configure aaa diameter peer-policy** *string*
Description	Diameter peer policy IPv4 source address
Introduced	16.0.R4

ipv6-source-address *ipv6-unicast-address*

Context	**configure aaa diameter peer-policy** *string*
Description	IPv6 source address for all Diameter messages sent to IPv6-reachable peers
Introduced	16.0.R4

origin-host *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Origin-Host AVP sent in CER and all application-based messages
String Length	1 to 80
Introduced	16.0.R4

origin-realm *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Origin-Realm AVP sent in CER and all application-based messages
String Length	1 to 80
Introduced	16.0.R4

peer [peer-name] *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Enter the peer context
Max. Elements	5
Introduced	16.0.R4

[peer-name] *string*

Context	**configure aaa diameter peer-policy** *string* **peer** *string*
Description	Name of peer in Diameter peer policy
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure aaa diameter peer-policy** *string* **peer** *string*

Description IPv4 or IPv6 address of the Diameter peer

Introduced 16.0.R4

admin-state *keyword*

Context **configure aaa diameter peer-policy** *string* **peer** *string*

Description Administrative state of the peer

Default disable

Options enable, disable

Introduced 16.0.R4

connection-timer *number*

Context **configure aaa diameter peer-policy** *string* **peer** *string*

Description Peer connection timer

Range 1 to 1000

Units seconds

Introduced 16.0.R4

destination-host *string*

Context **configure aaa diameter peer-policy** *string* **peer** *string*

Description Name of Destination-Host AVP sent in CCR-i/u and RAA messages

String Length 1 to 80

Introduced 16.0.R4

destination-realm *string*

Context **configure aaa diameter peer-policy** *string* **peer** *string*

Description Name of Destination-Realm AVP sent in CCR-i/u and RAA messages

String Length 1 to 80

Introduced 16.0.R4

preference *number*

Context	**configure aaa diameter peer-policy** *string* **peer** *string*
Description	Peer preference of this Diameter peer policy (lower is more preferred)
Range	1 to 100
Default	50
Introduced	16.0.R4

statistics

Context	**configure aaa diameter peer-policy** *string* **peer** *string*
Description	Enter the statistics context
Introduced	16.0.R4

transaction-timer *number*

Context	**configure aaa diameter peer-policy** *string* **peer** *string*
Description	Timeout value for the Base Diameter messages (DWR, CER, DPR), where action is taken upon expiration
Range	1 to 1000
Units	seconds
Introduced	16.0.R4

transport

Context	**configure aaa diameter peer-policy** *string* **peer** *string*
Description	Enter the transport context
Introduced	16.0.R4

port-number *number*

Context	**configure aaa diameter peer-policy** *string* **peer** *string* **transport**
Description	Transport protocol port number used toward policy peer
Range	1 to 65535
Default	3868
Introduced	16.0.R4

watchdog-timer *number*

Context	**configure aaa diameter peer-policy** *string* **peer** *string*
Description	Time between consecutive watchdog messages
Range	1 to 1000
Units	seconds
Introduced	16.0.R4

proxy

Context	**configure aaa diameter peer-policy** *string*
Description	Enter the proxy context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure aaa diameter peer-policy** *string* **proxy**
Description	Administrative state of Diameter proxy
Default	disable
Options	enable, disable
Introduced	16.0.R4

local-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure aaa diameter peer-policy** *string* **proxy**
Description	Source IP address on which Diameter proxy listens for client connections
Introduced	16.0.R4

mcs-peer

Context	**configure aaa diameter peer-policy** *string* **proxy**
Description	Enter the mcs-peer context
Introduced	16.0.R1

address *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa diameter peer-policy** *string* **proxy mcs-peer**
Description	IPv4 or IPv6 address of the Multi-Chassis Synchronization (MCS) peer
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R4
Notes	This element is mandatory

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa diameter peer-policy** *string* **proxy mcs-peer**
Description	Synchronization tag shared by Multi-Chassis Synchronization (MCS) peers
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is mandatory

router-instance *string*

Context	**configure aaa diameter peer-policy** *string* **proxy**
Description	Routing context associated with Diameter proxy
Introduced	16.0.R4

statistics

Context	**configure aaa diameter peer-policy** *string* **proxy**
Description	Enter the statistics context
Introduced	16.0.R4

python-policy *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Name of python policy for Diameter messages received or transmitted on Diameter peers
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

role *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa diameter peer-policy** *string*
Description	Client or proxy role of a Diameter peer policy
Default	client
Options	client, proxy
Introduced	16.0.R4

router-instance *string*

Context	**configure aaa diameter peer-policy** *string*
Description	Diameter peer policy router
Default	Base
Introduced	16.0.R1

transaction-timer *number*

Context	**configure aaa diameter peer-policy** *string*
Description	Diameter peer policy transaction timer
Range	1 to 1000
Default	30
Units	seconds
Introduced	16.0.R4

vendor-support *diam-vendor-support*

Context	**configure aaa diameter peer-policy** *string*
Description	Vendor support announced in the capability exchange
Default	three-gpp
Options	vodafone, three-gpp
Introduced	16.0.R4

watchdog-timer *number*

Context	**configure aaa diameter peer-policy** *string*
Description	Time between consecutive watchdog messages
Range	1 to 1000
Default	30
Units	seconds
Introduced	16.0.R4

radius

Context	**configure aaa**
Description	Enter the radius context
Introduced	16.0.R4

acct-on-off-group [name] *string*

Context	**configure aaa radius**
Description	Enter the acct-on-off-group context
Max. Elements	32
Introduced	16.0.R4

[name] *string*

Context	**configure aaa radius acct-on-off-group** *string*
Description	Accounting on/off group name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

description *string*

Context	**configure aaa radius acct-on-off-group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

coa-port *number*

Context	**configure aaa radius**
Description	Radius CoA port
Range	1647 | 1700 | 1812 | 3799
Default	3799
Introduced	16.0.R4

isa-policy [name] *string*

Context	**configure aaa radius**
Description	Enter the isa-policy context
Max. Elements	8
Introduced	16.0.R4

[name] *string*

Context	**configure aaa radius isa-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

accounting

Context	**configure aaa radius isa-policy** *string*
Description	Enter the accounting context
Introduced	16.0.R4

include-attributes

Context	**configure aaa radius isa-policy** *string* **accounting**
Description	Enter the include-attributes context
Introduced	16.0.R4

acct-delay-time *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Acct-Delay-Time attribute
Default	false
Introduced	16.0.R4

acct-triggered-reason *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include Alc-Acct-Triggered-Reason attribute
Default	false
Introduced	16.0.R4

called-station-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Called-Station-Id attribute
Default	false
Introduced	16.0.R4

calling-station-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Calling-Station-Id attribute
Default	false
Introduced	16.0.R4

circuit-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Circuit-Id attribute
Default	false
Introduced	16.0.R4

class *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**
Description Include the Class attribute
Default false
Introduced 16.0.R4

dhcp-options *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**
Description Include the Alc-ToServer-Dhcp-Options attribute
Default false
Introduced 16.0.R4

dhcp-vendor-class-id *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**
Description Include the Alc-DHCP-Vendor-Class-Id attribute
Default false
Introduced 16.0.R4

frame-counters *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**
Description Include the Acct-Input-Packets and Acct-Output-Packets attributes
Default false
Introduced 16.0.R4

framed-ip-address *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**
Description Include the Framed-IP-Address attribute
Default false
Introduced 16.0.R4

framed-ip-netmask *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Framed-IP-Netmask attribute
Default	false
Introduced	16.0.R4

framed-ipv6-prefix *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Framed-IPv6-Prefix attribute
Default	false
Introduced	16.0.R4

hardware-timestamp *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Event-Timestamp attribute
Default	false
Introduced	16.0.R4

ipv6-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the IPv6-Address attribute
Default	false
Introduced	16.0.R4

mac-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Client-Hardware-Addr attribute
Default	false
Introduced	16.0.R4

multi-session-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Acct-Multi-Session-Id attribute
Default	false
Introduced	16.0.R4

nas-identifier *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAS-Identifier attribute
Default	false
Introduced	16.0.R4

nas-ip-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAS-IP-Address attribute
Default	false
Introduced	16.0.R4

nas-port *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAS-Port attribute
Default	false
Introduced	16.0.R4

nas-port-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAS-Port-Id attribute
Default	false
Introduced	16.0.R4

nas-port-type *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAS-Port-Type attribute
Default	false
Introduced	16.0.R4

nat-inside-service-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAT inside service ID in Alc-Serv-Id attribute
Default	false
Introduced	16.0.R4

nat-outside-ip-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Nat-Outside-Ip-Addr attribute
Default	false
Introduced	16.0.R4

nat-outside-service-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the NAT outside service ID in the Alc-Serv-Id attribute
Default	false
Introduced	16.0.R4

nat-port-range-block *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Nat-Port-Range attribute
Default	false
Introduced	16.0.R4

nat-subscriber-string *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Subsc-ID-Str attribute
Default	false
Introduced	16.0.R4

octet-counters *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Acct-Input-Octets and Acct-Output-Octets attributes
Default	false
Introduced	16.0.R4

proxied-subscriber-data *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include subscriber data as RADIUS attributes that are passed into RADIUS accounting messages
Default	false
Introduced	16.0.R4

release-reason *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the reason of NAT release in the Acct-Terminate-Cause attribute
Default	false
Introduced	16.0.R4

remote-id *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Remote-Id attribute
Default	false
Introduced	16.0.R4

rssi *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**

Description Include the Alc-RSSI attribute

Default false

Introduced 16.0.R4

session-time *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**

Description Include the Acct-Session-Time attribute

Default false

Introduced 16.0.R4

subscriber-id *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**

Description Include the Alc-Subsc-ID-Str attribute

Default false

Introduced 16.0.R4

toserver-dhcp6-options *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**

Description Include the Alc-ToServer-Dhcp6-Options attribute

Default false

Introduced 16.0.R4

ue-creation-type *boolean*

Context **configure aaa radius isa-policy** *string* **accounting include-attributes**

Description Include the Alc-Wlan-Ue-Creation-Type attribute

Default false

Introduced 16.0.R4

user-name *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the User-Name attribute
Default	false
Introduced	16.0.R4

wlan-ssid-vlan *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the per-SSID VLAN tag in Alc-Wlan-SSID-VLAN attribute
Default	false
Introduced	16.0.R4

xconnect-tunnel-home-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Xconnect-Tunnel-Home-Ipv6 attribute
Default	false
Introduced	16.0.R4

xconnect-tunnel-local-ipv6-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Xconnect-Tunnel-Local-Ipv6 attribute
Default	false
Introduced	16.0.R4

xconnect-tunnel-remote-ipv6-address *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the cross-connect tunnel remote IPv6 address attribute
Default	false
Introduced	16.0.R4

xconnect-tunnel-service *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Xconnect-Tunnel-Service attribute
Default	false
Introduced	16.0.R4

xconnect-tunnel-type *boolean*

Context	**configure aaa radius isa-policy** *string* **accounting include-attributes**
Description	Include the Alc-Xconnect-Tunnel-Type attribute
Default	false
Introduced	16.0.R4

nat-periodic-update

Context	**configure aaa radius isa-policy** *string* **accounting**
Description	Enter the nat-periodic-update context
Introduced	16.0.R4

interval *number*

Context	**configure aaa radius isa-policy** *string* **accounting nat-periodic-update**
Description	Interval for periodic RADIUS Interim-Update messages
Range	1 to 72
Units	hours
Introduced	16.0.R4

rate-limit (*number* | *keyword*)

Context	**configure aaa radius isa-policy** *string* **accounting nat-periodic-update**
Description	Rate limit for periodic RADIUS Interim-Update messages
Range	1 to 100000
Default	unlimited
Units	packets per second
Options	unlimited
Introduced	16.0.R4

update-triggers

Context **configure aaa radius isa-policy** *string* **accounting**

Description Enter the update-triggers context

Introduced 16.0.R4

address-state *boolean*

Context **configure aaa radius isa-policy** *string* **accounting update-triggers**

Description Send an Interim-Update when DHCP/DHCP6/SLAAC state is created or removed

Default false

Introduced 16.0.R4

authentication

Context **configure aaa radius isa-policy** *string*

Description Enter the authentication context

Introduced 16.0.R4

include-attributes

Context **configure aaa radius isa-policy** *string* **authentication**

Description Enter the include-attributes context

Introduced 16.0.R4

called-station-id *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the Called-Station-Id attribute

Default false

Introduced 16.0.R4

calling-station-id *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the Calling-Station-Id attribute

Default false

Introduced 16.0.R4

circuit-id *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Agent-Circuit-Id attribute
Default	false
Introduced	16.0.R4

dhcp-vendor-class-id *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Dhcp-Vendor-Class-Id attribute
Default	false
Introduced	16.0.R4

framed-ip-address *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Framed-IP-Address attribute
Default	false
Introduced	16.0.R4

ipv6-address *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Alc-Ipv6-Address attribute
Default	false
Introduced	16.0.R4

mac-address *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Alc-Client-Hardware-Addr attribute
Default	false
Introduced	16.0.R4

nas-identifier *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the NAS-Identifier attribute

Default false

Introduced 16.0.R4

nas-ip-address *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the NAS-IP-Address attribute

Default true

Introduced 16.0.R4

nas-port *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the NAS-Port attribute

Default false

Introduced 16.0.R4

nas-port-id *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the NAS-Port-Id attribute

Default false

Introduced 16.0.R4

nas-port-type *boolean*

Context **configure aaa radius isa-policy** *string* **authentication include-attributes**

Description Include the NAS-Port-Type attribute

Default false

Introduced 16.0.R4

remote-id *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Agent-Remote-Id attribute
Default	false
Introduced	16.0.R4

toserver-dhcp-options *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Alc-ToServer-Dhcp-Options attribute
Default	false
Introduced	16.0.R4

toserver-dhcp6-options *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Alc-ToServer-Dhcp6-Options attribute
Default	false
Introduced	16.0.R4

wlan-ssid-vlan *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the per-SSID VLAN ID in Alc-Wlan-SSID-VLAN attribute
Default	false
Introduced	16.0.R4

xconnect-tunnel-home-address *boolean*

Context	**configure aaa radius isa-policy** *string* **authentication include-attributes**
Description	Include the Alc-Xconnect-Tunnel-Home-Ipv6 attribute
Default	false
Introduced	16.0.R5

description *string*

Context	**configure aaa radius isa-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

nas-ip-address-origin *keyword*

Context	**configure aaa radius isa-policy** *string*
Description	NAS-IP-Address attribute
Default	system-ip
Options	system-ip, isa-ip
Introduced	16.0.R4

password *encrypted-leaf*

Context	**configure aaa radius isa-policy** *string*
Description	Password used in the RADIUS access requests
String Length	1 to 42
Introduced	16.0.R4

python-policy *string*

Context	**configure aaa radius isa-policy** *string*
Description	Python policy used for modifying RADIUS messages
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

servers

Context	**configure aaa radius isa-policy** *string*
Description	Enter the servers context
Introduced	16.0.R4

access-algorithm *keyword*

Context	**configure aaa radius isa-policy** *string* **servers**
Description	Algorithm that accesses the RADIUS servers
Options	direct, round-robin, hash-based
Introduced	16.0.R4

router-instance *string*

Context	**configure aaa radius isa-policy** *string* **servers**
Description	The routing instance
Introduced	16.0.R1

server [index] *number*

Context	**configure aaa radius isa-policy** *string* **servers**
Description	Enter the server context
Max. Elements	10
Introduced	16.0.R4

[index] *number*

Context	**configure aaa radius isa-policy** *string* **servers server** *number*
Description	RADIUS server index that determines sequence in which servers are queried for auth requests
Range	1 to 10
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure aaa radius isa-policy** *string* **servers server** *number*
Description	Administrative state of the ISA RADIUS server
Default	disable
Options	enable, disable
Introduced	16.0.R4

ip-address *ipv4-unicast-address*

Context **configure aaa radius isa-policy** *string* **servers server** *number*

Description Destination IP address to reach RADIUS server

Introduced 16.0.R4

purpose

Context **configure aaa radius isa-policy** *string* **servers server** *number*

Description Enter the purpose context

Introduced 16.0.R4

accounting

Context **configure aaa radius isa-policy** *string* **servers server** *number* **purpose**

Description Enter the accounting context

Introduced 16.0.R4

udp-port *number*

Context **configure aaa radius isa-policy** *string* **servers server** *number* **purpose accounting**

Description ISA RADIUS server accounting UDP port

Range 1 to 65535

Default 1813

Introduced 16.0.R4

authentication

Context **configure aaa radius isa-policy** *string* **servers server** *number* **purpose**

Description Enter the authentication context

Introduced 16.0.R4

udp-port *number*

Context	**configure aaa radius isa-policy** *string* **servers server** *number* **purpose authentication**
Description	ISA RADIUS server authentication UDP port
Range	1 to 65535
Default	1812
Introduced	16.0.R4

coa

Context	**configure aaa radius isa-policy** *string* **servers server** *number* **purpose**
Description	Enter the coa context
Introduced	16.0.R4

udp-port *number*

Context	**configure aaa radius isa-policy** *string* **servers server** *number* **purpose coa**
Description	ISA RADIUS server change of authorization UDP port
Range	1 to 65535
Default	3799
Introduced	16.0.R4

secret *encrypted-leaf*

Context	**configure aaa radius isa-policy** *string* **servers server** *number*
Description	Shared secret to authenticate messages and encrypt attributes to or from this server
String Length	1 to 114
Introduced	16.0.R4

source-address-range *ipv4-unicast-address*

Context	**configure aaa radius isa-policy** *string* **servers**
Description	Starting source address of RADIUS messages; end depends on number of ISAs in the system
Introduced	16.0.R4

timeout *number*

Context	**configure aaa radius isa-policy** *string* **servers**
Description	Timeout for a response from the RADIUS server
Range	1 to 90
Default	5
Units	seconds
Introduced	16.0.R4

total-tries *number*

Context	**configure aaa radius isa-policy** *string* **servers**
Description	Maximum number of tries toward the same RADIUS server
Range	1 to 10
Default	3
Introduced	16.0.R4

user-name

Context	**configure aaa radius isa-policy** *string*
Description	Enter the user-name context
Introduced	16.0.R4

format *keyword*

Context	**configure aaa radius isa-policy** *string* **user-name**
Description	How user is represented when contacting RADIUS server
Default	mac
Options	mac, mac-ip, dhcp-vendor, circuit-id
Introduced	16.0.R4

mac-format *keyword*

Context	**configure aaa radius isa-policy** *string* **user-name**
Description	How the MAC address gets formatted
Options	alu, ieee
Introduced	16.0.R4

l2tp-accounting-policy [name] *string*

Context	**configure aaa radius**
Description	Enter the l2tp-accounting-policy context
Max. Elements	32
Introduced	16.0.R4

[name] *string*

Context	**configure aaa radius l2tp-accounting-policy** *string*
Description	Name for L2TP RADIUS accounting policy
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-type

Context	**configure aaa radius l2tp-accounting-policy** *string*
Description	Enter the accounting-type context
Introduced	16.0.R4

session *boolean*

Context	**configure aaa radius l2tp-accounting-policy** *string* **accounting-type**
Description	Enable/disable per session accounting
Default	true
Introduced	16.0.R4

tunnel *boolean*

Context	**configure aaa radius l2tp-accounting-policy** *string* **accounting-type**
Description	Enable/disable per tunnel accounting
Default	true
Introduced	16.0.R4

acct-tunnel-connection-fmt *string*

Context	**configure aaa radius l2tp-accounting-policy** *string*
Description	Accounting tunnel connection ASCII specification
String Length	1 to 253
Default	%n
Introduced	16.0.R4

description *string*

Context	**configure aaa radius l2tp-accounting-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

include-radius-attribute

Context	**configure aaa radius l2tp-accounting-policy** *string*
Description	Enter the include-radius-attribute context
Introduced	16.0.R4

calling-station-id *boolean*

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute**
Description	Include the calling station ID attribute
Default	false
Introduced	16.0.R4

nas-identifier *boolean*

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute**
Description	Include the NAS-Identifier attribute
Default	false
Introduced	16.0.R4

nas-port

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute**
Description	Enter the nas-port context
Introduced	16.0.R4

bit-spec *binary-specification*

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute nas-port**
Description	RADIUS NAS-Port attribute
String Length	1 to 255
Introduced	16.0.R4
Notes	This element is mandatory

nas-port-id

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute**
Description	Enter the nas-port-id context
Introduced	16.0.R4

prefix-string *string*

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute nas-port-id**
Description	Specifies NAS-Port-Id prefix string
String Length	1 to 8
Introduced	16.0.R4

suffix *keyword*

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute nas-port-id**
Description	Specifies NAS-Port-Id suffix
Options	circuit-id, remote-id
Introduced	16.0.R4

nas-port-type

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute**
Description	Enter the nas-port-type context
Introduced	16.0.R4

type (*keyword* | *number*)

Context	**configure aaa radius l2tp-accounting-policy** *string* **include-radius-attribute nas-port-type**
Description	Value for RADIUS NAS-Port-Type attribute
Range	0 to 255
Default	rfc-aligned
Options	rfc-aligned
Introduced	16.0.R4

radius-server-policy *string*

Context	**configure aaa radius l2tp-accounting-policy** *string*
Description	RADIUS server policy
Reference	configure **aaa radius server-policy** *string*
Introduced	16.0.R4

route-downloader [name] *string*

Context	**configure aaa radius**
Description	Enter the route-downloader context
Max. Elements	1
Introduced	16.0.R4

[name] *string*

Context	**configure aaa radius route-downloader** *string*
Description	Route downloader name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure aaa radius route-downloader** *string*
Description	Administrative state of this Route Downloader
Default	disable
Options	enable, disable
Introduced	16.0.R4

base-user-name *string*

Context	**configure aaa radius route-downloader** *string*
Description	Prefix of the username used by this route downloader
String Length	1 to 32
Introduced	16.0.R4

default-metric *number*

Context	**configure aaa radius route-downloader** *string*
Description	Default metric of this route downloader
Range	0 to 254
Default	2
Introduced	16.0.R4

default-tag *number*

Context	**configure aaa radius route-downloader** *string*
Description	Default tag of this route downloader
Range	0 to 4294967295
Default	0
Introduced	16.0.R4

description *string*

Context	**configure aaa radius route-downloader** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

download-interval *number*

Context	**configure aaa radius route-downloader** *string*
Description	Configure the download interval of this route-downloader
Range	1 to 1440
Default	720
Units	minutes
Introduced	16.0.R4

max-routes *number*

Context	**configure aaa radius route-downloader** *string*
Description	Maximum routes imported by this route downloader
Range	1 to 200000
Default	200000
Introduced	16.0.R4

password *encrypted-leaf*

Context	**configure aaa radius route-downloader** *string*
Description	Route downloader password
String Length	1 to 70
Introduced	16.0.R4

radius-server-policy *string*

Context	**configure aaa radius route-downloader** *string*
Description	Radius server policy used by this route downloader
Reference	configure **aaa radius server-policy** *string*
Introduced	16.0.R4

retry-interval

Context	**configure aaa radius route-downloader** *string*
Description	Enter the retry-interval context
Introduced	16.0.R4

max *number*

Context	**configure aaa radius route-downloader** *string* **retry-interval**
Description	Specifies the maximum duration of the retry interval. This duration grows exponentially after each sequential failure
Range	1 to 1440
Default	20
Units	minutes
Introduced	16.0.R4

min *number*

Context	**configure aaa radius route-downloader** *string* **retry-interval**
Description	Specifies the minimum duration of the retry interval. This duration grows exponentially after each sequential failure.
Range	1 to 1440
Default	10
Units	minutes
Introduced	16.0.R4

server-policy [name] *string*

Context	**configure aaa radius**
Description	Enter the server-policy context
Max. Elements	32
Introduced	16.0.R4

[name] *string*

Context	**configure aaa radius server-policy** *string*
Description	RADIUS script policy name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

acct-on-off

Context	**configure aaa radius server-policy** *string*
Description	Enter the acct-on-off context
Introduced	16.0.R4

monitor *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa radius server-policy** *string* **acct-on-off**
Description	monitor a group
Reference	configure **aaa radius acct-on-off-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

oper-state-change

Context	**configure aaa radius server-policy** *string* **acct-on-off**
Description	Enter the **oper-state-change** context
Introduced	16.0.R4

group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure aaa radius server-policy** *string* **acct-on-off oper-state-change**
Description	Change of operational state for a group
Reference	configure **aaa radius acct-on-off-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

description *string*

Context	**configure aaa radius server-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

python-policy *string*

Context	**configure aaa radius server-policy** *string*
Description	Python policy to modify the RADIUS messages
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

servers

Context	**configure aaa radius server-policy** *string*
Description	Enter the servers context
Introduced	16.0.R4

access-algorithm *keyword*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Algorithm to access the set of RADIUS servers
Options	direct, round-robin, hash-based
Introduced	16.0.R4

buffering

Context	**configure aaa radius server-policy** *string* **servers**
Description	Enter the buffering context
Introduced	16.0.R4

acct-interim

Context	**configure aaa radius server-policy** *string* **servers buffering**
Description	Enter the acct-interim context
Introduced	16.0.R4

lifetime *number*

Context	**configure aaa radius server-policy** *string* **servers buffering acct-interim**
Description	Time when an accounting message can be in the retransmission buffer
Range	1 to 25
Units	hours
Introduced	16.0.R4
Notes	This element is mandatory

max *number*

Context	**configure aaa radius server-policy** *string* **servers buffering acct-interim**
Description	Maximum time between retries to send RADIUS accounting interim update message
Range	1 to 3600
Units	seconds
Introduced	16.0.R4
Notes	This element is mandatory

min *number*

Context	**configure aaa radius server-policy** *string* **servers buffering acct-interim**
Description	Minimum time between retries to send RADIUS accounting interim update message
Range	1 to 3600
Units	seconds
Introduced	16.0.R4
Notes	This element is mandatory

acct-stop

Context	**configure aaa radius server-policy** *string* **servers buffering**
Description	Enter the acct-stop context
Introduced	16.0.R4

lifetime *number*

Context	**configure aaa radius server-policy** *string* **servers buffering acct-stop**
Description	Time when an accounting message can be in the retransmission buffer
Range	1 to 25
Units	hours
Introduced	16.0.R4
Notes	This element is mandatory

max *number*

Context	**configure aaa radius server-policy** *string* **servers buffering acct-stop**
Description	Max time between retries to send RADIUS accounting stop message
Range	1 to 3600
Units	seconds
Introduced	16.0.R4
Notes	This element is mandatory

min *number*

Context	**configure aaa radius server-policy** *string* **servers buffering acct-stop**
Description	Minimum time between retries to send RADIUS accounting stop message
Range	1 to 3600
Units	seconds
Introduced	16.0.R4
Notes	This element is mandatory

health-check

Context	**configure aaa radius server-policy** *string* **servers**
Description	Enter the health-check context
Introduced	16.0.R4

down-timeout *number*

Context	**configure aaa radius server-policy** *string* **servers health-check**
Description	Time to wait for a reply message from the RADIUS server before the server is declared out-of-service
Range	1 to 340
Units	seconds
Introduced	16.0.R4

test-account

Context	**configure aaa radius server-policy** *string* **servers health-check**
Description	Enter the test-account context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure aaa radius server-policy** *string* **servers health-check test-account**
Description	Administrative state of health check state
Default	disable
Options	enable, disable
Introduced	16.0.R4

interval *number*

Context	**configure aaa radius server-policy** *string* **servers health-check test-account**
Description	Time for health check
Range	1 to 60
Default	3
Units	seconds
Introduced	16.0.R4

password *encrypted-leaf*

Context	**configure aaa radius server-policy** *string* **servers health-check test-account**
Description	Password for health check
String Length	1 to 114
Introduced	16.0.R4

user-name *string*

Context	**configure aaa radius server-policy** *string* **servers health-check test-account**
Description	Username for health check
String Length	1 to 64
Introduced	16.0.R4

hold-down-time *number*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Hold time before re-using a RADIUS server that was down
Range	30 to 86400
Default	30
Units	seconds
Introduced	16.0.R4

ipv6-source-address *ipv6-address*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Source address for IPv6 RADIUS datagrams
Introduced	16.0.R4

retry-count *number*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Number of retries for contacting the RADIUS server
Range	1 to 256
Default	3
Introduced	16.0.R4

router-instance *string*

Context	**configure aaa radius server-policy** *string* **servers**
Description	RADIUS routing instance
Introduced	16.0.R1

server [server-index] *number*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Enter the server context
Max. Elements	32
Introduced	16.0.R4

[server-index] *number*

Context	**configure aaa radius server-policy** *string* **servers server** *number*
Description	RADIUS server index
Range	1 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

server-name *string*

Context	**configure aaa radius server-policy** *string* **servers server** *number*
Description	RADIUS server name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is mandatory

source-address *ipv4-address*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Source address of RADIUS messages
Introduced	16.0.R4

stickiness *boolean*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Stickiness to a host in a multi server application
Default	true
Introduced	16.0.R4

timeout *number*

Context	**configure aaa radius server-policy** *string* **servers**
Description	Time until the next retry to the RADIUS server
Range	1 to 340
Default	5
Units	seconds
Introduced	16.0.R4

wpp

Context	**configure aaa**
Description	Enter the wpp context
Introduced	16.0.R1

portal-group [group-name] *string*

Context	**configure aaa wpp**
Description	Enter the portal-group context
Introduced	16.0.R1

[group-name] *string*

Context	**configure aaa wpp portal-group** *string*
Description	Portal group name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure aaa wpp portal-group** *string*
Description	Administrative state of the portal group
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure aaa wpp portal-group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

portal [router-instance] *string* **name** *string*

Context	**configure aaa wpp portal-group** *string*
Description	Enter the portal context
Max. Elements	8
Introduced	16.0.R1

[router-instance] *string*

Context	**configure aaa wpp portal-group** *string* **portal** *string* **name** *string*
Description	Router on which the portal is configured
Introduced	16.0.R1
Notes	This element is part of a list key

name *string*

Context	**configure aaa wpp portal-group** *string* **portal** *string* **name** *string*
Description	Portal name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

3 bfd Commands

configure
- — **bfd**
  - — **bfd-template** *string*
    - — **echo-receive** *number*
    - — **multiplier** *number*
    - — **receive-interval** *number*
    - — **transmit-interval** *number*
    - — **type** *keyword*

3.1 bfd Command Descriptions

bfd

Context	**configure**
Description	Enter the bfd context
Introduced	16.0.R1

bfd-template [name] *string*

Context	**configure bfd**
Description	Enter the bfd-template context
Introduced	16.0.R1

[name] *string*

Context	**configure bfd bfd-template** *string*
Description	BFD template name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

echo-receive *number*

Context	**configure bfd bfd-template** *string*
Description	Echo receive interval
Range	100 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure bfd bfd-template** *string*
Description	Detect multiplier used for a BFD session
Range	3 to 20
Default	3
Introduced	16.0.R1

receive-interval *number*

Context	**configure bfd bfd-template** *string*
Description	Receive interval
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context	**configure bfd bfd-template** *string*
Description	Transmit interval
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context	**configure bfd bfd-template** *string*
Description	Local termination point for the BFD session
Options	cpm-np
Introduced	16.0.R1

4 bmp Commands

configure
- — **bmp**
  - — **admin-state** *keyword*
  - — **station** *string*
    - — **admin-state** *keyword*
    - — **connection**
      - — **connect-retry** *number*
      - — **local-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
      - — **router-instance** *string*
      - — **station-address**
        - — **ip-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - — **port** *number*
      - — **tcp-keepalive**
        - — **admin-state** *keyword*
        - — **keep-count** *number*
        - — **keep-idle** *number*
        - — **keep-interval** *number*
    - — **description** *string*
    - — **family**
      - — **evpn** *boolean*
      - — **ipv4** *boolean*
      - — **ipv6** *boolean*
      - — **l2-vpn** *boolean*
      - — **label-ipv4** *boolean*
      - — **label-ipv6** *boolean*
      - — **mcast-ipv4** *boolean*
      - — **mcast-ipv6** *boolean*
      - — **mcast-vpn-ipv4** *boolean*
      - — **mcast-vpn-ipv6** *boolean*
      - — **vpn-ipv4** *boolean*
      - — **vpn-ipv6** *boolean*
    - — **initiation-message** *string*
    - — **report-local-routes** *boolean*
    - — **stats-report-interval** *number*

4.1 bmp Command Descriptions

bmp

Context	**configure**
Description	Enter the bmp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure bmp**
Description	Administrative state of the BGP Monitoring Protocol operation
Default	disable
Options	enable, disable
Introduced	16.0.R1

station [name] *string*

Context	**configure bmp**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[name] *string*

Context	**configure bmp station** *string*
Description	BMP monitoring station name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure bmp station** *string*
Description	Administrative state of the BMP monitoring station
Default	disable
Options	enable, disable
Introduced	16.0.R1

connection

Context	**configure bmp station** *string*
Description	Enter the connection context
Introduced	16.0.R1

connect-retry *number*

Context	**configure bmp station** *string* **connection**
Description	Maximum time between connection attempts
Range	1 to 65535
Default	120
Units	seconds
Introduced	16.0.R1

local-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure bmp station** *string* **connection**
Description	Local IP address to communicate with the BMP monitoring station
Introduced	16.0.R1

router-instance *string*

Context	**configure bmp station** *string* **connection**
Description	Router instance used to reach the BMP station.
Default	Base
Introduced	16.0.R1

station-address

Context **configure bmp station** *string* **connection**

Description Enter the station-address context

Introduced 16.0.R1

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure bmp station** *string* **connection station-address**

Description IP address of the BMP monitoring station

Introduced 16.0.R1

port *number*

Context **configure bmp station** *string* **connection station-address**

Description Port of the BMP monitoring station

Range 1 to 65535

Introduced 16.0.R1

tcp-keepalive

Context **configure bmp station** *string* **connection**

Description Enter the tcp-keepalive context

Introduced 16.0.R1

admin-state *keyword*

Context **configure bmp station** *string* **connection tcp-keepalive**

Description Administrative state of TCP keepalive

Default disable

Options enable, disable

Introduced 16.0.R1

keep-count *number*

Context	**configure bmp station** *string* **connection tcp-keepalive**
Description	Number of missed keepalives before the TCP connection is declared down
Range	3 to 100
Default	4
Introduced	16.0.R1

keep-idle *number*

Context	**configure bmp station** *string* **connection tcp-keepalive**
Description	Time until the first TCP keepalive probe is sent.
Range	1 to 100000
Default	600
Units	seconds
Introduced	16.0.R1

keep-interval *number*

Context	**configure bmp station** *string* **connection tcp-keepalive**
Description	Time between two TCP keepalive probes
Range	1 to 100000
Default	15
Units	seconds
Introduced	16.0.R1

description *string*

Context	**configure bmp station** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

family

Context	**configure bmp station** *string*
Description	Enter the family context
Introduced	16.0.R1

evpn *boolean*

Context	**configure bmp station** *string* **family**
Description	Enable/disable family type evpn.
Default	false
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure bmp station** *string* **family**
Description	Support IPv4 address family
Default	true
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure bmp station** *string* **family**
Description	Support IPv6 address family
Default	false
Introduced	16.0.R1

l2-vpn *boolean*

Context	**configure bmp station** *string* **family**
Description	Enable/disable family type l2-vpn.
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure bmp station** *string* **family**
Description	Support labeled IPv4 address family
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context	**configure bmp station** *string* **family**
Description	Support labeled IPv6 address family
Default	false
Introduced	16.0.R1

mcast-ipv4 *boolean*

Context	**configure bmp station** *string* **family**
Description	Enable/disable family type mcast-ipv4.
Default	false
Introduced	16.0.R1

mcast-ipv6 *boolean*

Context	**configure bmp station** *string* **family**
Description	Enable/disable family type mcast-ipv6.
Default	false
Introduced	16.0.R1

mcast-vpn-ipv4 *boolean*

Context	**configure bmp station** *string* **family**
Description	Enable/disable family type mcast-vpn-ipv4.
Default	false
Introduced	16.0.R1

mcast-vpn-ipv6 *boolean*

Context	**configure bmp station** *string* **family**
Description	Enable/disable family type mcast-vpn-ipv6.
Default	false
Introduced	16.0.R1

vpn-ipv4 *boolean*

Context	**configure bmp station** *string* **family**
Description	Support VPN IPv4 address family
Default	false
Introduced	16.0.R1

vpn-ipv6 *boolean*

Context	**configure bmp station** *string* **family**
Description	Support VPN IPv6 address family
Default	false
Introduced	16.0.R1

initiation-message *string*

Context	**configure bmp station** *string*
Description	Free form initiation message for a type 0 TLV to be sent to the BMP monitoring station
String Length	1 to 255
Introduced	16.0.R1

report-local-routes *boolean*

Context	**configure bmp station** *string*
Description	Allow local route reporting to the BMP monitoring station
Default	false
Introduced	16.0.R1

stats-report-interval *number*

Context	**configure bmp station** *string*
Description	Frequency of statistics reporting messages sent to the BMP monitoring station
Range	15 to 65535
Units	seconds
Introduced	16.0.R1

5 call-trace Commands

configure
- **call-trace**
  - **location** *keyword*
    - **admin-state** *keyword*
    - **size-limit** (*number* | *keyword*)
  - **max-files-number** *number*
  - **primary-cf** *keyword*
  - **trace-profile** *string*
    - **applications**
      - **connectivity-management** *boolean*
      - **ludb** *boolean*
      - **msap** *boolean*
      - **python** *boolean*
      - **radius-acct** *boolean*
      - **radius-auth** *boolean*
    - **description** *string*
    - **events** *keyword*
    - **output**
      - **debug**
      - **live**
        - **fqdn** *string*
        - **ip-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **port** *number*
        - **router-instance** *string*
      - **local-storage**
    - **size-limit** *number*
    - **time-limit** *number*

5.1 call-trace Command Descriptions

call-trace

Context	**configure**
Description	Enter the call-trace context
Introduced	16.0.R1

location [location-type] *keyword*

Context	**configure call-trace**
Description	Enter the location context
Introduced	16.0.R1

[location-type] *keyword*

Context	**configure call-trace location** *keyword*
Description	ID of the compact flash card to be used
Options	cf1, cf2
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure call-trace location** *keyword*
Description	Administrative state of this compact flash card for storage of call trace log files
Default	enable
Options	enable, disable
Introduced	16.0.R1

size-limit (*number* | *keyword*)

Context	**configure call-trace location** *keyword*
Description	Maximum cumulative size of all local call trace log files stored on the given compact flash card
Range	1 to 65536
Default	1000
Options	unlimited
Introduced	16.0.R1

max-files-number *number*

Context	**configure call-trace**
Description	Maximum number of all call trace log files stored on all compact flash cards
Range	1 to 1024
Default	200
Introduced	16.0.R1

primary-cf *keyword*

Context	**configure call-trace**
Description	Compact flash card to be used as primary local storage location to save the call trace log files
Default	cf1
Options	cf1, cf2
Introduced	16.0.R1

trace-profile [name] *string*

Context	**configure call-trace**
Description	Enter the trace-profile context
Introduced	16.0.R1

[name] *string*

Context	**configure call-trace trace-profile** *string*
Description	Unique name for the call trace profile
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

applications

Context	**configure call-trace trace-profile** *string*
Description	Enter the applications context
Introduced	16.0.R1

connectivity-management *boolean*

Context	**configure call-trace trace-profile** *string* **applications**
Description	Allow tracing for connectivity protocols
Default	true
Introduced	16.0.R1

ludb *boolean*

Context	**configure call-trace trace-profile** *string* **applications**
Description	Allow tracing for local user database lookups
Default	true
Introduced	16.0.R1

msap *boolean*

Context	**configure call-trace trace-profile** *string* **applications**
Description	Allow tracing for MSAP creation events
Default	true
Introduced	16.0.R1

python *boolean*

Context	**configure call-trace trace-profile** *string* **applications**
Description	Allow tracing for Python script execution
Default	true
Introduced	16.0.R1

radius-acct *boolean*

Context	**configure call-trace trace-profile** *string* **applications**
Description	Allow tracing for messages and events related to RADIUS-based accounting
Default	true
Introduced	16.0.R1

radius-auth *boolean*

Context	**configure call-trace trace-profile** *string* **applications**
Description	Allow tracing for messages and events related to RADIUS authentication
Default	true
Introduced	16.0.R1

description *string*

Context	**configure call-trace trace-profile** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

events *keyword*

Context	**configure call-trace trace-profile** *string*
Description	Events to include in the captured trace
Options	public-only, all
Introduced	16.0.R1

output

Context	**configure call-trace trace-profile** *string*
Description	Enter the output context
Introduced	16.0.R1

debug

Context	**configure call-trace trace-profile** *string* **output**
Description	Trace log generated by a call trace job to be decoded as test and sent to debug logging
Introduced	16.0.R1
Notes	This element is part of a choice

live

Context	**configure call-trace trace-profile** *string* **output**
Description	Enter the **live** context
Introduced	16.0.R1

fqdn *string*

Context	**configure call-trace trace-profile** *string* **output live**
Description	Fully qualified domain name of the live output destination
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure call-trace trace-profile** *string* **output live**
Description	IP address of the live output destination
Introduced	16.0.R1
Notes	This element is part of a choice

port *number*

Context	**configure call-trace trace-profile** *string* **output live**
Description	TCP IP port
Range	1 to 65536
Default	29770
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Context	**configure call-trace trace-profile** *string* **output live**
Description	Router instance or VPRN service name
Default	Base
Introduced	16.0.R1
Notes	This element is part of a choice

local-storage

Context	**configure call-trace trace-profile** *string* **output**
Description	Default destination for output
Introduced	16.0.R1
Notes	This element is part of a choice

size-limit *number*

Context	**configure call-trace trace-profile** *string*
Description	Maximum data volume generated by a single call trace job to the output
Range	1 to 1000
Default	10
Units	megabytes
Introduced	16.0.R1

time-limit *number*

Context	**configure call-trace trace-profile** *string*
Description	Maximum time for a single call trace job
Range	1 to 604800
Default	86400
Introduced	16.0.R1

6 card Commands

configure
- **card** (*iom-card-slot* | *cpm-card-slot*)
  - **admin-state** *keyword*
  - **capability** *keyword*
  - **card-type** *keyword*
  - **fail-on-error** *boolean*
  - **fp** *number*
    - **dist-cpu-protection**
      - **dynamic-enforcement-policer-pool** *number*
    - **egress**
      - **hs-fixed-high-thresh-delta** *number*
      - **hs-pool-policy** *string*
      - **wred-queue-control**
        - **admin-state** *keyword*
        - **buffer-allocation** *decimal-number*
        - **reserved-cbs** *decimal-number*
        - **slope-policy** *string*
    - **hi-bw-mcast-src**
      - **alarm** *boolean*
      - **default-paths-only** *boolean*
      - **group** *number*
    - **ingress**
      - **access**
        - **queue-group** *string* **instance-id** *number*
          - **accounting-policy** *string*
          - **collect-stats** *boolean*
          - **description** *string*
          - **policer-control-policy**
            - **overrides**
              - **max-rate** (*number* | *keyword*)
              - **priority-mbs-thresholds**
                - **min-threshold-separation** (*number* | *keyword*)
                - **priority** *number*
                  - **mbs-contribution** (*number* | *keyword*)
            - **policy-name** *string*
          - **policer-overrides**
            - **policer** *string*
              - **cbs** (*number* | *keyword*)
              - **mbs** (*number* | *keyword*)
              - **packet-byte-offset** *number*
              - **rate**
                - **cir** (*number* | *keyword*)
                - **pir** (*number* | *keyword*)
              - **stat-mode** *keyword*
      - **mcast-path-management**
        - **admin-state** *keyword*
        - **bandwidth-policy** *string*
      - **network**
        - **queue-group** *string* **instance-id** *number*
          - **accounting-policy** *string*

```
            — collect-stats boolean
            — description string
            — policer-control-policy
               — overrides
                  — max-rate (number | keyword)
                  — priority-mbs-thresholds
                     — min-threshold-separation (number | keyword)
                     — priority number
                        — mbs-contribution (number | keyword)
               — policy-name string
            — policer-overrides
               — policer string
                  — cbs (number | keyword)
                  — mbs (number | keyword)
                  — packet-byte-offset number
                  — rate
                     — cir (number | keyword)
                     — pir (number | keyword)
                  — stat-mode keyword
      — ingress-buffer-allocation decimal-number
      — init-extract-prio-mode keyword
      — policy-accounting number
      — stable-pool-sizing boolean
   — level keyword
   — mcm number
      — admin-state keyword
      — mcm-type keyword
   — mda number
      — access
         — egress
            — pool string
               — amber-alarm-threshold number
               — red-alarm-threshold number
               — resv-cbs
                  — amber-alarm-action
                     — max number
                     — step number
                  — cbs number
               — slope-policy string
         — ingress
            — pool string
               — amber-alarm-threshold number
               — red-alarm-threshold number
               — resv-cbs
                  — amber-alarm-action
                     — max number
                     — step number
                  — cbs number
               — slope-policy string
      — admin-state keyword
      — atm
         — mode keyword
      — clock-mode
         — mode keyword
```

- **timestamp-freq** *number*
- **egress**
  - **hsmda-aggregate-queue-burst**
    - **high-burst-increase** *number*
    - **low-burst-multiplier** *number*
  - **hsmda-pool-policy** *string*
- **egress-xpl**
  - **threshold** *number*
  - **window** *number*
- **fail-on-error** *boolean*
- **ingress-xpl**
  - **threshold** *number*
  - **window** *number*
- **level** *keyword*
- **mda-type** *keyword*
- **named-pool-mode**
  - **egress**
    - **named-pool-policy** *string*
  - **ingress**
    - **named-pool-policy** *string*
- **network**
  - **egress**
    - **pool** *string*
      - **amber-alarm-threshold** *number*
      - **red-alarm-threshold** *number*
      - **resv-cbs**
        - **amber-alarm-action**
          - **max** *number*
          - **step** *number*
        - **cbs** *number*
      - **slope-policy** *string*
  - **ingress**
    - **pool** *string*
      - **amber-alarm-threshold** *number*
      - **red-alarm-threshold** *number*
      - **resv-cbs**
        - **amber-alarm-action**
          - **max** *number*
          - **step** *number*
        - **cbs** *number*
      - **slope-policy** *string*
    - **queue-policy** *string*
- **power-priority-level** *number*
- **reset-on-recoverable-error** *boolean*
- **sync-e** *keyword*
- **upgrade** *number*
  - **path** *keyword*
- **named-pool-mode** *boolean*
- **reset-on-recoverable-error** *boolean*
- **upgrade** *number*
  - **path** *keyword*
- **virtual-scheduler-adjustment**
  - **internal-scheduler-weight-mode** *keyword*
  - **interval**

- **rate-calculation-minimum**
  - **fast-queue** *decimal-number*
  - **slow-queue** *decimal-number*
- **scheduler-run-minimum** *decimal-number*
- **task-scheduling** *decimal-number*

- **slow-queue-threshold-rate** *number*

6.1 card Command Descriptions

card [slot-number] (*iom-card-slot* | *cpm-card-slot*)

Context	**configure**
Description	Enter the card context
Introduced	16.0.R1

[slot-number] (*iom-card-slot* | *cpm-card-slot*)

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	IOM slot within a chassis
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Administrative state of the I/O module
Default	enable
Options	enable, disable
Introduced	16.0.R1

capability *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	I/O module for SR or ESS operation
Default	ess
Options	sr, ess
Introduced	16.0.R1

card-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Card type
Options	iom3-xp, imm48-1gb-sfp, imm48-1gb-tx, imm8-10gb-xfp, imm4-10gb-xfp, iom-xp, imm5-10gb-xfp, iom-c4-xp, imm1-100gb-cfp, imm12-10gb-sf+, iom3-xp-b, xcm-x20, imm48-1gb-sfp-b, imm3-40gb-qsfp, imm40-10gb-sfp, xcm-x16, imm4-100gb-cxp, iom3-xp-c, iom-xp-b, iom4-e, iom-a, xcm-x16w, imm-1pac-fp3, imm-2pac-fp3, iom4-e-hs, imm48-1gb-sfp-c, imm4-100gb-cfp4, iom-e, iom-v, iom4-e-b, iom-sar-hm, xcm2-x20, iom-1, xcm-14s, imm40-10gb-sfp-ptp, iom5-e, xcm-7s, xcm-1s, xcm-2s
Introduced	16.0.R1

fail-on-error *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Set the Operational State of the card to Failed when an error is detected
Default	false
Introduced	16.0.R1

fp [fp-number] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Enter the fp context
Introduced	16.0.R1

[fp-number] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Forwarding plane within a specific IOM card
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

dist-cpu-protection

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Enter the dist-cpu-protection context
Introduced	16.0.R1

dynamic-enforcement-policer-pool *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **dist-cpu-protection**
Description	Number of policers reserved for use as dynamic enforcement policers on forwarding plane
Range	1000 to 32000
Introduced	16.0.R1

egress

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Enter the egress context
Introduced	16.0.R1

hs-fixed-high-thresh-delta *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress**
Description	High threshold delta on forwarding plane
Range	0 to 65536
Introduced	16.0.R1

hs-pool-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress**
Description	HS pool policy
Reference	configure **qos hs-pool-policy** *string*
Introduced	16.0.R1

wred-queue-control

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress**
Description	Enter the wred-queue-control context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress wred-queue-control**
Description	Administrative state of WRED queue control
Default	disable
Options	enable, disable
Introduced	16.0.R1

buffer-allocation *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress wred-queue-control**
Description	Configure the WRED queue aggregate buffer allocation which will be set aside for WRED queue buffer pools
Range	0.01 to 99.99
Default	25.00
Units	percent
Introduced	16.0.R1

reserved-cbs *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress wred-queue-control**
Description	Configure the buffers within the WRED pool that will be set aside for WRED queues operating within their configured CBS thresholds.
Range	0.01 to 99.99
Default	25.00
Units	percent
Introduced	16.0.R1

slope-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **egress wred-queue-control**
Description	Egress WRED queue control slope policy for forwarding plane
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

hi-bw-mcast-src

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Enter the hi-bw-mcast-src context
Introduced	16.0.R1

alarm *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **hi-bw-mcast-src**
Description	Raise an alarm when more than one high bandwidth multicast traffic taps share a plane
Default	false
Introduced	16.0.R1

default-paths-only *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **hi-bw-mcast-src**
Description	Allocate only the two default paths (one high priority and one low priority) to dedicated MSFPs
Default	false
Introduced	16.0.R1

group *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **hi-bw-mcast-src**
Description	Logical MSFP group of the MDA
Range	0 to 32
Default	0
Introduced	16.0.R1

ingress

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Enter the ingress context
Introduced	16.0.R1

access

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress**
Description	Enter the access context
Introduced	16.0.R1

queue-group [queue-group-name] *string* instance-id *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access**
Description	Enter the queue-group context
Introduced	16.0.R1

[queue-group-name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Queue group name
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

instance-id *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Instance ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Accounting policy for the FP ingress queue group
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Collect statistics on FP ingress queue group
Default	false
Introduced	16.0.R1

description *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

policer-control-policy

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Enter the policer-control-policy context
Introduced	16.0.R1

overrides

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy**
Description	Enter the overrides context
Introduced	16.0.R1

max-rate (*number* | *keyword*)

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy overrides**
Description	Maximum rate override
Units	kilobps
Introduced	16.0.R1

priority-mbs-thresholds

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy overrides**
Description	Enter the priority-mbs-thresholds context
Introduced	16.0.R1

min-threshold-separation (*number* | *keyword*)

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds**
Description	Minimum threshold separation override
Units	bytes
Introduced	16.0.R1

priority [level] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds**
Description	Enter the priority context
Introduced	16.0.R1

[level] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds priority** *number*
Description	Priority level
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds priority** *number*
Description	MBS contribution size override
Units	bytes
Introduced	16.0.R1

policy-name *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-control-policy**
Description	Policer control policy
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

policer-overrides

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number*
Description	Enter the policer-overrides context
Introduced	16.0.R1

policer [policer-id] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides**
Description	Enter the policer context
Introduced	16.0.R1

[policer-id] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*
Description	Policer identifier
Reference	configure **qos queue-group-templates ingress queue-group** *string* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*
Description	CBS parameter override
Units	bytes
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*

Description MBS parameter override

Units bytes

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*

Description Size of each packet handled by the policer

Range -32 to 31

Introduced 16.0.R1

rate

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string* **rate**

Description CIR rate

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string* **rate**

Description PIR rate

Introduced 16.0.R1

stat-mode *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress access queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*
Description	Stat mode for the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

mcast-path-management

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress**
Description	Enter the mcast-path-management context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress mcast-path-management**
Description	Administrative state of ingress multicast path management
Default	disable
Options	enable, disable
Introduced	16.0.R1

bandwidth-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress mcast-path-management**
Description	Bandwidth policy associated with the MDA or forwarding plane for ingress multicast path management
Reference	configure **multicast-management bandwidth-policy** *string*
Introduced	16.0.R1

network

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress**
Description	Enter the network context
Introduced	16.0.R1

queue-group [queue-group-name] *string* **instance-id** *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network**
Description	Enter the queue-group context
Introduced	16.0.R1

[queue-group-name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*
Description	Queue group name
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

instance-id *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*
Description	Instance ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*
Description	Accounting policy for the FP ingress queue group
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*
Description	Collect statistics on FP ingress queue group
Default	false
Introduced	16.0.R1

description *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

policer-control-policy

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

max-rate (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy overrides**

Description Maximum rate override

Units kilobps

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy overrides**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R1

min-threshold-separation (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds**

Description Minimum threshold separation override

Units bytes

Introduced 16.0.R1

priority [level] *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R1

[level] *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds priority** *number*

Description Priority level

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy overrides priority-mbs-thresholds priority** *number*

Description MBS contribution size override

Units bytes

Introduced 16.0.R1

policy-name *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-control-policy**
Description	Policer control policy
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

policer-overrides

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number*
Description	Enter the policer-overrides context
Introduced	16.0.R1

policer [policer-id] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides**
Description	Enter the policer context
Introduced	16.0.R1

[policer-id] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*
Description	Policer identifier
Reference	configure **qos queue-group-templates ingress queue-group** *string* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*
Description	CBS parameter override
Units	bytes
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*

Description MBS parameter override

Units bytes

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*

Description Size of each packet handled by the policer

Range -32 to 31

Introduced 16.0.R1

rate

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string* **rate**

Description CIR rate

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string* **rate**

Description PIR rate

Introduced 16.0.R1

stat-mode *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number* **ingress network queue-group** *string* **instance-id** *number* **policer-overrides policer** *string*
Description	Stat mode for the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

ingress-buffer-allocation *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Ingress buffer pool percentage for forwarding plane
Range	20.00 to 80.00
Default	50.00
Units	percent
Introduced	16.0.R1

init-extract-prio-mode *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Scheme to select initial drop priority of extracted control plane traffic
Default	uniform
Options	uniform, l3-classify
Introduced	16.0.R1

policy-accounting *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Number of stats resources for policy accounting for the forwarding plane
Range	1000 to 128000
Introduced	16.0.R1

stable-pool-sizing *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **fp** *number*
Description	Use a stable buffer pool allocation environment for all default port buffer pools on an FP
Default	false
Introduced	16.0.R1

level *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Functional level of I/O module for slot
Options	unrestricted, he, er, cr, he1200g+, er1200g+, cr1200g+, he400g, er400g, cr400g
Introduced	16.0.R1

mcm [mcm-slot] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Enter the mcm context
Introduced	16.0.R1

[mcm-slot] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mcm** *number*
Description	Unique odd value for MCM slot within a specific IOM card
Range	1 | 3 | 5 | 7 | 9 | 11 | 13 | 15
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mcm** *number*
Description	Administrative state of MCM
Default	enable
Options	enable, disable
Introduced	16.0.R1

mcm-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mcm** *number*
Description	MCM configuration for slot
Options	mcm-xp
Introduced	16.0.R1

mda [mda-slot] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Enter the mda context
Introduced	16.0.R1

[mda-slot] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	MDA slot
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

access

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Enter the access context
Introduced	16.0.R1

egress

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access**
Description	Enter the egress context
Introduced	16.0.R1

pool [name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress**
Description	Enter the pool context
Introduced	16.0.R1

[name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string*
Description	Unique pool name for MDA
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string*
Description	Configure amber alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

red-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string*
Description	Configure red alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

resv-cbs

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string*
Description	Enter the resv-cbs context
Introduced	16.0.R3

amber-alarm-action

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string* **resv-cbs**

Description Enter the amber-alarm-action context

Introduced 16.0.R3

max *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the maximum percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/step must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default. This value must not be more than resv-cbs.

Range 1 to 100

Units percent

Introduced 16.0.R3

step *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the step-size percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/max must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default.

Range 1 to 100

Units percent

Introduced 16.0.R3

cbs *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string* **resv-cbs**
Description	Configure the percentage of pool size reserved for CBS. For network, the default value is computed as the sum of the CBS request by the entities using the pool. For access, the default value is 30%.
Range	0 to 100
Units	percent
Introduced	16.0.R3

slope-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access egress pool** *string*
Description	Configure the slope policy.
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R3

ingress

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access**
Description	Enter the ingress context
Introduced	16.0.R1

pool [name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress**
Description	Enter the pool context
Introduced	16.0.R1

[name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string*
Description	Unique pool name for MDA
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string*
Description	Configure amber alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

red-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string*
Description	Configure red alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

resv-cbs

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string*
Description	Enter the resv-cbs context
Introduced	16.0.R3

amber-alarm-action

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string* **resv-cbs**
Description	Enter the amber-alarm-action context
Introduced	16.0.R3

max *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the maximum percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/step must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default. This value must not be more than resv-cbs.

Range 1 to 100

Units percent

Introduced 16.0.R3

step *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the step-size percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/max must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default.

Range 1 to 100

Units percent

Introduced 16.0.R3

cbs *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string* **resv-cbs**

Description Configure the percentage of pool size reserved for CBS. For network, the default value is computed as the sum of the CBS request by the entities using the pool. For access, the default value is 30%.

Range 0 to 100

Units percent

Introduced 16.0.R3

slope-policy *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **access ingress pool** *string*

Description Configure the slope policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R3

admin-state *keyword*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*

Description Administrative state of MDA

Default enable

Options enable, disable

Introduced 16.0.R1

atm

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*

Description Enter the atm context

Introduced 16.0.R1

mode *keyword*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **atm**

Description Mode of operation

Options max8k-vc, max16k-vc

Introduced 16.0.R1

clock-mode

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*

Description Enter the clock-mode context

Introduced 16.0.R1

mode *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **clock-mode**
Description	Clock mode
Options	adaptive, differential
Introduced	16.0.R1

timestamp-freq *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **clock-mode**
Description	Differential timestamp frequency
Range	19940 | 77760 | 103680
Introduced	16.0.R1

egress

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Enter the egress context
Introduced	16.0.R1

hsmda-aggregate-queue-burst

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **egress**
Description	Enter the hsmda-aggregate-queue-burst context
Introduced	16.0.R1

high-burst-increase *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **egress** **hsmda-aggregate-queue-burst**
Description	High burst increase
Range	0 to 65536
Units	bytes
Introduced	16.0.R1

low-burst-multiplier *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **egress hsmda-aggregate-queue-burst**

Description Low burst multiplier

Range 1 to 65536

Introduced 16.0.R1

hsmda-pool-policy *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **egress**

Description Egress HSMDA pool policy

Reference configure **qos hsmda-pool-policy** *string*

Introduced 16.0.R1

egress-xpl

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*

Description Enter the egress-xpl context

Introduced 16.0.R1

threshold *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **egress-xpl**

Description Threshold value for egress XPL errors

Range 1 to 1000000

Default 1000

Units xpl errors

Introduced 16.0.R1

window *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **egress-xpl**

Description Time interval to measure frequency of egress XPL errors against threshold value

Range 1 to 1440

Default 60

Units minutes

Introduced 16.0.R1

fail-on-error *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Set the Operational State of the MDA to Failed when threshold of egress XPL errors is reached
Default	false
Introduced	16.0.R1

ingress-xpl

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Enter the ingress-xpl context
Introduced	16.0.R1

threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **ingress-xpl**
Description	Threshold value for ingress XPL errors
Range	1 to 1000000
Default	1000
Units	xpl errors
Introduced	16.0.R1

window *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **ingress-xpl**
Description	Time interval to measure frequency of ingress XPL errors against threshold value
Range	1 to 1440
Default	60
Units	minutes
Introduced	16.0.R1

level *keyword*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*

Description Functional level of MDA for slot

Options unrestricted, he2400g, he1600g, he1200g, er2400g, er1600g, er1200g, cr2400g, cr1600g, cr1200g, he2400g+, er2400g+, cr2400g+, he3600g, er3600g, cr3600g, he3600gdd, er3600gdd, cr3600gdd, he4800g, er4800g, cr4800g, he4800g+, er4800g+, cr4800g+

Introduced 16.0.R1

mda-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*

Description MDA configuration for slot

Options m60-10/100eth-tx, m1-oc192, m1-10gb, m20-100eth-sfp, m4-choc3-as-sfp, c8-10/100eth-tx, c1-1gb-sfp, c8-chds1, c4-ds3, m10-1gb+1-10gb, isa-tunnel, c2-oc12/3-sfp, c1-choc3-ces-sfp, m1-choc12-as-sfp, m12-chds3-as, m4-chds3-as, isa-aa, m4-choc3-ces-sfp, m1-choc3-ces-sfp, m4-10gb-xp-xfp, m2-10gb-xp-xfp, c5-1gb-xp-sfp, c1-1gb-xp-sfp, m1-10gb-xp-xfp, m10-1gb-xp-sfp, m20-1gb-xp-sfp, m20-1gb-xp-tx, m1-choc12-ces-sfp, imm24-1gb-xp-sfp, imm24-1gb-xp-tx, imm4-10gb-xp-xfp, imm2-10gb-xp-xfp, isa-video, imm5-10gb-xp-xfp, m48-1gb-xp-tx, isa-bb, icm2-10gb-xp-xfp, isa-ms, isa-ms-e, imm1-100gb-xp-cfp, imm12-10gb-xp-sf+, vsm-cca-xp, imm3-40gb-xp-qsfp, m10-1gb-hs-sfp-b, m16-oc12/3-sfp-b, m16-atmoc3-sfp-b, m4-atmoc12/3-sf-b, m4-oc48-sfp-b, m1-10gb-hs-xfp-b, cx20-10g-sfp, cx2-100g-cfp, p10-10g-sfp, p1-100g-cfp, c2-oc12/3-sfp-b, m2-oc192-xp-xfp, m12-1gb-xp-sfp, m12-1gb+2-10gb-xp, p3-40g-qsfp, p1-100g-tun, p6-10g-sfp, x40-10g-sfp, m40-10g-sfp, x4-100g-cxp, cx6-40g-qsfp, m4-100g-cxp, p20-1gb-sfp, p-isa2-ms, p-isa2-ms-e, isa2-aa, isa2-tunnel, isa2-bb, x4-100g-cfp2, cx72-1g-csfp, p160-1gb-csfp, maxp1-100gb-cfp, ma4-10gb-sfp+, maxp10-10gb-sfp+, me10-10gb-sfp+, ma2-10gb-sfp+12-1gb-sfp, maxp6-10gb-sfp+1-40gb-qsfp+, ma44-1gb-csfp, ma20-1gb-tx, me1-100gb-cfp2, m4-100g-cfp4, p1-100g-tun-b, maxp1-100gb-cfp2, maxp1-100gb-cfp4, isa-ms-v, isa-aa-v, isa-tunnel-v, isa-bb-v, m20-v, me-isa2-ms, me-isa2-ms-e, me40-1gb-csfp, me2-100gb-cfp4, me6-10gb-sfp+, isa2-video, me2-100gb-qsfp28, i6-10/100eth-tx, x2-100g-tun, i2-sdi, i2-cellular, me12-10/1gb-sfp+, me6-100gb-qsfp28, x6-400g-cfp8, me2-100gb-ms-qsfp28, x40-10g-sfp-ptp, m40-10g-sfp-ptp, x24-100g-qsfp28, me12-100gb-qsfp28, i1-wlan, s36-400gb-qsfpdd, s36-100gb-qsfp28

Introduced 16.0.R1

named-pool-mode

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description Enter the named-pool-mode context
Introduced 16.0.R1

egress

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **named-pool-mode**
Description Enter the egress context
Introduced 16.0.R1

named-pool-policy *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **named-pool-mode egress**
Description Configure the named pool policy.
Reference configure **qos named-pool-policy** *string*
Introduced 16.0.R3

ingress

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **named-pool-mode**
Description Enter the ingress context
Introduced 16.0.R1

named-pool-policy *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **named-pool-mode ingress**
Description Configure the named pool policy.
Reference configure **qos named-pool-policy** *string*
Introduced 16.0.R3

network

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description Enter the network context
Introduced 16.0.R1

egress

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network**
Description	Enter the egress context
Introduced	16.0.R1

pool [name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress**
Description	Enter the pool context
Introduced	16.0.R1

[name] *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string*
Description	Unique pool name for MDA
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string*
Description	Configure amber alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

red-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string*
Description	Configure red alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

resv-cbs

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string*

Description Enter the resv-cbs context

Introduced 16.0.R3

amber-alarm-action

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string* **resv-cbs**

Description Enter the amber-alarm-action context

Introduced 16.0.R3

max *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the maximum percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/step must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default. This value must not be more than resv-cbs.

Range 1 to 100

Units percent

Introduced 16.0.R3

step *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the step-size percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/max must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default.

Range 1 to 100

Units percent

Introduced 16.0.R3

cbs *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string* **resv-cbs**

Description Configure the percentage of pool size reserved for CBS. For network, the default value is computed as the sum of the CBS request by the entities using the pool. For access, the default value is 30%.

Range 0 to 100

Units percent

Introduced 16.0.R3

slope-policy *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network egress pool** *string*

Description Configure the slope policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R3

ingress

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network**

Description Enter the ingress context

Introduced 16.0.R1

pool [name] *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress**

Description Enter the pool context

Introduced 16.0.R1

[name] *string*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string*

Description Unique pool name for MDA

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

amber-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string*
Description	Configure amber alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

red-alarm-threshold *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string*
Description	Configure red alarm threshold allowed on over-subscription.
Range	1 to 1000
Units	percent
Introduced	16.0.R3

resv-cbs

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string*
Description	Enter the resv-cbs context
Introduced	16.0.R3

amber-alarm-action

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string* **resv-cbs**
Description	Enter the amber-alarm-action context
Introduced	16.0.R3

max *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the maximum percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/step must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default. This value must not be more than resv-cbs.

Range 1 to 100

Units percent

Introduced 16.0.R3

step *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string* **resv-cbs amber-alarm-action**

Description Configure the step-size percentage for the reserved CBS size of the pool. When set to a value of zero (0), the adaptive CBS sizing is disabled. To enable adaptive CBS sizing, both this leaf and amber-alarm-action/max must be set to non-default values. Adaptive CBS sizing can only be enabled when resv-cbs is non-default.

Range 1 to 100

Units percent

Introduced 16.0.R3

cbs *number*

Context **configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string* **resv-cbs**

Description Configure the percentage of pool size reserved for CBS. For network, the default value is computed as the sum of the CBS request by the entities using the pool. For access, the default value is 30%.

Range 0 to 100

Units percent

Introduced 16.0.R3

slope-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress pool** *string*
Description	Configure the slope policy.
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R3

queue-policy *string*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **network ingress**
Description	Network-queue policy
Reference	configure **qos network-queue** *string*
Introduced	16.0.R1

power-priority-level *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Power priority value, lower value has higher priority
Range	1 to 200
Default	150
Introduced	16.0.R1

reset-on-recoverable-error *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Reset MDA for fatal memory parity error on a Q-chip of the MDA, regardless of fail-on-error setting
Default	false
Introduced	16.0.R1

sync-e *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Synchronous Ethernet
Options	true, false
Introduced	16.0.R1

upgrade [upgrade-index] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number*
Description	Enter the upgrade context
Introduced	16.0.R4

[upgrade-index] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **upgrade** *number*
Description	The unique value which identifies the functional upgrade number on this MDA on the system.
Range	1 to 6
Introduced	16.0.R4
Notes	This element is part of a list key

path *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **mda** *number* **upgrade** *number*
Description	Provisions the functional level upgrade path of the MDA for this slot.
Options	cr1200g-cr1600g, cr1600g-cr2400g, er1200g-er1600g, er1600g-er2400g, he1200g-he1600g, he1600g-he2400g, cr1200g-er1200g, er1200g-he1200g, cr1600g-er1600g, er1600g-he1600g, cr2400g-er2400g, er2400g-he2400g, any2400g-2400g+, cr3600g-cr4800g, er3600g-er4800g, he3600g-he4800g, cr3600g-er3600g, er3600g-he3600g, cr4800g-er4800g, er4800g-he4800g, any3600g-3600gdd, any4800g-4800g+
Introduced	16.0.R4
Notes	This element is mandatory

named-pool-mode *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Create a default network and access pool for ingress and egress, shared by queues on all ports
Default	false
Introduced	16.0.R1

reset-on-recoverable-error *boolean*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Reset card for fatal memory parity error on a Q-chip of the card, regardless of fail-on-error setting
Default	false
Introduced	16.0.R1

upgrade [upgrade-index] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Enter the upgrade context
Introduced	16.0.R4

[upgrade-index] *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **upgrade** *number*
Description	The unique value which identifies the functional upgrade number on this card on the system.
Range	1 to 6
Introduced	16.0.R4
Notes	This element is part of a list key

path *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **upgrade** *number*
Description	Provisions the functional level upgrade path of the I/O module for this slot.
Options	cr-er, er-he, cr400g-cr1200g+, er400g-er1200g+, he400g-he1200g+, cr-er1200g+, er-he1200g+
Introduced	16.0.R4
Notes	This element is mandatory

virtual-scheduler-adjustment

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*)
Description	Enter the virtual-scheduler-adjustment context
Introduced	16.0.R1

internal-scheduler-weight-mode *keyword*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment**
Description	Internal scheduler weight mode
Default	auto
Options	auto, force-equal, offered-load, capped-offered-load
Introduced	16.0.R1

interval

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment**
Description	Enter the interval context
Introduced	16.0.R1

rate-calculation-minimum

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment interval**
Description	Enter the rate-calculation-minimum context
Introduced	16.0.R1

fast-queue *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment interval rate-calculation-minimum**
Description	Default minimum rate calculation time for fast queues
Range	0.01 to 1000.00
Default	100.00
Units	percent
Introduced	16.0.R1

slow-queue *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment interval rate-calculation-minimum**
Description	Default minimum rate calculation time for slow queues
Range	0.01 to 1000.00
Default	100.00
Units	percent
Introduced	16.0.R1

scheduler-run-minimum *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment interval**
Description	Minimum time of the scheduler run
Range	0.01 to 1000.00
Default	100.00
Units	percent
Introduced	16.0.R1

task-scheduling *decimal-number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment interval**
Description	Task scheduling interval
Range	0.01 to 1000.00
Default	100.00
Units	percent
Introduced	16.0.R1

slow-queue-threshold-rate *number*

Context	**configure card** (*iom-card-slot* | *cpm-card-slot*) **virtual-scheduler-adjustment**
Description	Rate of the slow queue threshold
Range	0 to 1000000
Default	1000
Units	kilobps
Introduced	16.0.R1

7 cflowd Commands

configure
- — **cflowd**
  - — **active-timeout** *number*
  - — **admin-state** *keyword*
  - — **analyze-gre-payload** *boolean*
  - — **cache-size** *number*
  - — **collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
    - — **admin-state** *keyword*
    - — **aggregation**
      - — **as-matrix** *boolean*
      - — **destination-prefix** *boolean*
      - — **protocol-port** *boolean*
      - — **raw** *boolean*
      - — **source-destination-prefix** *boolean*
      - — **source-prefix** *boolean*
    - — **autonomous-system-type** *keyword*
    - — **description** *string*
    - — **export-filter**
      - — **family**
        - — **ipv4** *boolean*
        - — **ipv6** *boolean*
        - — **l2-ip** *boolean*
        - — **mcast-ipv4** *boolean*
        - — **mcast-ipv6** *boolean*
        - — **mpls** *boolean*
      - — **interface-list**
        - — **router** *string* **interface-name** *string*
        - — **service**
          - — **ies-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
          - — **ies-interface service-name** *string* **interface-name** *string*
          - — **vprn-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
          - — **vprn-interface service-name** *string* **interface-name** *string*
          - — **vprn-network-interface service-name** *string* **network-interface-name** *string*
      - — **router** *string*
    - — **router-instance** *string*
    - — **template-set** *keyword*
    - — **version** *number*
  - — **enhanced-distribution** *boolean*
  - — **export-mode** *keyword*
  - — **inactive-timeout** *number*
  - — **inband-collector-export-only** *boolean*
  - — **overflow** *number*
  - — **rate** *number*
  - — **template-retransmit** *number*
  - — **use-vrtr-if-index** *boolean*

7.1 cflowd Command Descriptions

cflowd

Context	**configure**
Description	Enter the cflowd context
Introduced	16.0.R1

active-timeout *number*

Context	**configure cflowd**
Description	Maximum time before an active flow is exported
Range	1 to 600
Default	30
Units	minutes
Introduced	16.0.R1

admin-state *keyword*

Context	**configure cflowd**
Description	Administrative state of Cflowd sampling
Default	enable
Options	enable, disable
Introduced	16.0.R1

analyze-gre-payload *boolean*

Context	**configure cflowd**
Description	Perform Cflowd analysis on the inner IP packet within a GRE packet
Default	false
Introduced	16.0.R1

cache-size *number*

Context	**configure cflowd**
Description	Maximum number of active flows in the flow cache table
Range	1000 to 1500000
Units	flows
Introduced	16.0.R1

collector [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Context	**configure cflowd**
Description	Enter the collector context
Max. Elements	8
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
Description	IP address of a remote Cflowd collector host to receive the exported Cflowd data
Introduced	16.0.R1
Notes	This element is part of a list key

port *number*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
Description	UDP port number on the remote Cflowd collector host to receive the exported Cflowd data
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
Description	Administrative state of this Cflowd collector
Default	enable
Options	enable, disable
Introduced	16.0.R1

aggregation

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Description Enter the aggregation context

Introduced 16.0.R1

as-matrix *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **aggregation**

Description Base aggregation data on autonomous system (AS) information

Default false

Introduced 16.0.R1

destination-prefix *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **aggregation**

Description Aggregate data based on the destination prefix information

Default false

Introduced 16.0.R1

protocol-port *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **aggregation**

Description Aggregate flows based on the IP protocol, source port number, and destination port number

Default false

Introduced 16.0.R1

raw *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **aggregation**

Description Export flow data without aggregation

Default false

Introduced 16.0.R1

source-destination-prefix *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **aggregation**

Description Aggregate data based on the source and destination prefix information

Default false

Introduced 16.0.R1

source-prefix *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **aggregation**

Description Aggregate flows based on the source prefix information

Default false

Introduced 16.0.R1

autonomous-system-type *keyword*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Description Basis of the AS information included in flow data

Default origin

Options origin, peer

Introduced 16.0.R1

description *string*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

export-filter

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*

Description Enter the export-filter context

Introduced 16.0.R1

family

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter**

Description Enter the family context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter family**

Description Filter IPv4 flow data from being sent to the associated collector

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter family**

Description Filter IPv6 flow data from being sent to the associated collector

Default false

Introduced 16.0.R1

l2-ip *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter family**

Description Filter Layer 2 IP flow data from being sent to the associated collector

Default false

Introduced 16.0.R1

mcast-ipv4 *boolean*

Context **configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter family**

Description Filter multicast IPv4 flow data from being sent to the associated collector

Default false

Introduced 16.0.R1

mcast-ipv6 *boolean*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter family**
Description	Filter multicast IPv6 flow data from being sent to the associated collector
Default	false
Introduced	16.0.R1

mpls *boolean*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter family**
Description	Filter MPLS flow data from being sent to the associated collector
Default	false
Introduced	16.0.R1

interface-list

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter**
Description	Enter the interface-list context
Introduced	16.0.R1

router [router-name] *string* **interface-name** *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list**
Description	Enter the router context
Introduced	16.0.R1

[router-name] *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list router** *string* **interface-name** *string*
Description	The administrative name for this router
Reference	configure **router** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list router** *string* **interface-name** *string*
Description	Router interface name.
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

service

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list**
Description	Enter the service context
Introduced	16.0.R1

ies-group-interface service-name *string* **subscriber-interface-name** *string* **group-interface-name** *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service**
Description	Enter the ies-group-interface context
Introduced	16.0.R1

service-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service ies-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
Description	ies service name
Reference	configure **service ies** *service-name*
Introduced	16.0.R1
Notes	This element is part of a list key

subscriber-interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service ies-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
Description	ies subscriber-interface name
Reference	configure **service ies** *service-name* **subscriber-interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

group-interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service ies-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
Description	ies group-interface name
Reference	configure **service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ies-interface service-name *string* **interface-name** *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service**
Description	Enter the ies-interface context
Introduced	16.0.R1

service-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service ies-interface service-name** *string* **interface-name** *string*
Description	ies service name
Reference	configure **service ies** *service-name*
Introduced	16.0.R1
Notes	This element is part of a list key

interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service ies-interface service-name** *string* **interface-name** *string*
Description	ies interface name
Reference	configure **service ies** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

vprn-group-interface service-name *string* **subscriber-interface-name** *string* **group-interface-name** *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service**
Description	Enter the vprn-group-interface context
Introduced	16.0.R1

service-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
Description	vprn service name
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is part of a list key

subscriber-interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
Description	vprn subscriber-interface name
Reference	configure **service vprn** *service-name* **subscriber-interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

group-interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-group-interface service-name** *string* **subscriber-interface-name** *string* **group-interface-name** *string*
Description	vprn group-interface name
Reference	configure **service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

vprn-interface service-name *string* **interface-name** *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service**
Description	Enter the vprn-interface context
Introduced	16.0.R1

service-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-interface service-name** *string* **interface-name** *string*
Description	vprn service name
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is part of a list key

interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-interface service-name** *string* **interface-name** *string*
Description	vprn interface name
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

vprn-network-interface service-name *string* **network-interface-name** *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service**
Description	Enter the vprn-network-interface context
Introduced	16.0.R1

service-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-network-interface service-name** *string* **network-interface-name** *string*
Description	vprn service name
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is part of a list key

network-interface-name *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter interface-list service vprn-network-interface service-name** *string* **network-interface-name** *string*
Description	vprn network-interface name
Reference	configure **service vprn** *service-name* **network-interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

router [router-instance] *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter**
Description	Enter the router context
Introduced	16.0.R1

[router-instance] *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number* **export-filter router** *string*
Description	Router instance ID
Introduced	16.0.R1
Notes	This element is part of a list key

router-instance *string*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
Description	Router context for the flow data for this Cflowd collector
Default	management
Introduced	16.0.R1

template-set *keyword*

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
Description	Template set for this Cflowd collector
Options	not-applicable, basic, mpls-ip, l2-ip, mpls-transport
Introduced	16.0.R1

version *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure cflowd collector** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **port** *number*
Description	Flow data collector version
Range	5 | 8 to 10
Introduced	16.0.R1
Notes	This element is mandatory

enhanced-distribution *boolean*

Context	**configure cflowd**
Description	Include ingress port ID in the hashing algorithm used to distribute Cflowd sample traffic
Default	false
Introduced	16.0.R1

export-mode *keyword*

Context	**configure cflowd**
Description	Export mode for flow data
Default	automatic
Options	automatic, manual
Introduced	16.0.R1

inactive-timeout *number*

Context	**configure cflowd**
Description	Time before the flow is considered inactive
Range	10 to 600
Default	15
Units	seconds
Introduced	16.0.R1

inband-collector-export-only *boolean*

Context	**configure cflowd**
Description	Export the traffic to all collectors only via in-band interfaces
Default	false
Introduced	16.0.R1

overflow *number*

Context	**configure cflowd**
Description	Percentage of entries to remove from Cflowd cache when the maximum number of entries is exceeded
Range	1 to 50
Default	1
Units	percent
Introduced	16.0.R1

rate *number*

Context	**configure cflowd**
Description	Rate at which traffic is sampled and sent for Cflowd analysis
Range	1 to 10000
Default	1000
Units	packets
Introduced	16.0.R1

template-retransmit *number*

Context	**configure cflowd**
Description	Time to resend template information
Range	10 to 600
Default	600
Units	seconds
Introduced	16.0.R1

use-vrtr-if-index *boolean*

Context	**configure cflowd**
Description	Export flow data using virtual router interface indexes
Default	false
Introduced	16.0.R1

8 chassis Commands

configure
- — **chassis** *keyword* **chassis-number** *number*
  - — **monitor-filter-door** *boolean*
  - — **peq** *number*
    - — **admin-state** *keyword*
    - — **input-power-mode** *number*
    - — **peq-type** *keyword*
  - — **power-connection-module** *number*
    - — **pcm-type** *keyword*
  - — **power-shelf** *number*
    - — **admin-state** *keyword*
    - — **description** *string*
    - — **power-module** *number*
      - — **admin-state** *keyword*
      - — **power-module-type** *keyword*
    - — **power-shelf-type** *keyword*
  - — **power-supply** *number*
    - — **power-supply-type** *keyword*

8.1 chassis Command Descriptions

chassis [chassis-class] *keyword* **chassis-number** *number*

Context	**configure**
Description	Enter the chassis context
Introduced	16.0.R1

[chassis-class] *keyword*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	Functional use of the physical chassis
Options	router
Introduced	16.0.R1
Notes	This element is part of a list key

chassis-number *number*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	Unique index to identify this physical chassis
Range	1 to 100
Introduced	16.0.R1
Notes	This element is part of a list key

monitor-filter-door *boolean*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	The value of monitor-filter-door specifies whether or not a filter door open or missing condition will be monitored by the system.
Default	false
Introduced	16.0.R1

peq [peq-slot] *number*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	Enter the peq context
Introduced	16.0.R1

[peq-slot] *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **peq** *number*
Description	Unique identifier index for a power supply tray in the chassis
Range	1 to 31
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure chassis** *keyword* **chassis-number** *number* **peq** *number*
Description	Administrative state of PEQ
Default	enable
Options	enable, disable
Introduced	16.0.R1

input-power-mode *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **peq** *number*
Description	Input power mode of the PEQ
Range	60 | 80
Units	amperes
Introduced	16.0.R1

peq-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure chassis** *keyword* **chassis-number** *number* **peq** *number*
Description	APEQ type
Options	apeq-dc-2000, apeq-dc-2200-2800, apeq-ac-3000, apeq-hvdc-3000, apeq-dc-4275, apeq-ac-4400
Introduced	16.0.R1

power-connection-module [pcm-slot] *number*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	Enter the power-connection-module context
Introduced	16.0.R1

[pcm-slot] *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-connection-module** *number*
Description	Unique identifier index for a power control module in the chassis
Range	1 to 12
Introduced	16.0.R1
Notes	This element is part of a list key

pcm-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure chassis** *keyword* **chassis-number** *number* **power-connection-module** *number*
Description	PCM type
Options	dual, quad
Introduced	16.0.R1

power-shelf [power-shelf-id] *number*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	Enter the power-shelf context
Introduced	16.0.R1

[power-shelf-id] *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number*
Description	Unique identifier index for a power shelf in chassis
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number*
Description	Administrative state of the power shelf
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

power-module [power-module-id] *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number*
Description	Enter the power-module context
Introduced	16.0.R1

[power-module-id] *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number* **power-module** *number*
Description	Unique identifier index for a power shelf in chassis
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number* **power-module** *number*
Description	Administrative state of the power module
Default	enable
Options	enable, disable
Introduced	16.0.R1

power-module-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number* **power-module** *number*
Description	Power module type
Options	ps-b-ac/hv-6000, ps-a-dc-4400, ps-a-dc-6000
Introduced	16.0.R1

power-shelf-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure chassis** *keyword* **chassis-number** *number* **power-shelf** *number*
Description	Power shelf type
Options	ps-a10-shelf-dc, ps-b10-shelf-ac/hv, ps-a4-shelf-dc, ps-b3-shelf-ac/hv
Introduced	16.0.R1

power-supply [power-supply-id] *number*

Context	**configure chassis** *keyword* **chassis-number** *number*
Description	Enter the power-supply context
Introduced	16.0.R1

[power-supply-id] *number*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-supply** *number*
Description	Unique identifier index for a power supply tray in the chassis
Range	1 to 31
Introduced	16.0.R1
Notes	This element is part of a list key

power-supply-type *keyword*

Context	**configure chassis** *keyword* **chassis-number** *number* **power-supply** *number*
Description	Power supply type
Default	auto
Options	none, dc-single, ac-single, ac-multiple, auto, dc-multiple
Introduced	16.0.R1

9 connection-profile Commands

configure
- — **connection-profile** *number*
  - — **description** *string*
  - — **member** *string*

9.1 connection-profile Command Descriptions

connection-profile [connection-profile-id] *number*

Context	**configure**
Description	Enter the connection-profile context
Introduced	16.0.R1

[connection-profile-id] *number*

Context	**configure connection-profile** *number*
Description	Identifier of this connection profile
Range	1 to 8000
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure connection-profile** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

member [encap-value] *string*

Context	**configure connection-profile** *number*
Description	Enter the member context
Max. Elements	16
Introduced	16.0.R1

[encap-value] *string*

Context	**configure connection-profile** *number* **member** *string*
Description	VPI and VCI values of this connection profile member
Introduced	16.0.R1
Notes	This element is part of a list key

10 connection-profile-vlan Commands

configure
- — **connection-profile-vlan** *number*
  - — **description** *string*
  - — **qtag-range** *number*
    - — **end** *number*

10.1 connection-profile-vlan Command Descriptions

connection-profile-vlan [connection-profile-id] *number*

Context	**configure**
Description	Enter the connection-profile-vlan context
Introduced	16.0.R1

[connection-profile-id] *number*

Context	**configure connection-profile-vlan** *number*
Description	The identifier of this vlan connection-profile.
Range	1 to 8000
Introduced	16.0.R3
Notes	This element is part of a list key

description *string*

Context	**configure connection-profile-vlan** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

qtag-range [start] *number*

Context	**configure connection-profile-vlan** *number*
Description	Enter the qtag-range context
Max. Elements	32
Introduced	16.0.R3

[start] *number*

Context	**configure connection-profile-vlan** *number* **qtag-range** *number*
Description	Specifies the start vlan range of this connection profile.
Range	1 to 4094
Introduced	16.0.R3
Notes	This element is part of a list key

end *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure connection-profile-vlan** *number* **qtag-range** *number*
Description	Specifies the end vlan range of this connection profile.
Range	1 to 4094
Introduced	16.0.R3

11 eth-cfm Commands

configure
- **eth-cfm**
  - **domain** *admin-name*
    - **association** *admin-name*
      - **auto-mep-discovery** *boolean*
      - **bridge-identifier** *service-name*
        - **id-permission** *keyword*
        - **mhf-creation** *keyword*
        - **mip-ltr-priority** *number*
        - **vlan** *number*
      - **ccm-hold-time**
        - **down** *number*
      - **ccm-interval** *keyword*
      - **facility-id-permission** *keyword*
      - **icc-based** *string*
      - **integer** *number*
      - **ma-index** *number*
      - **remote-mep** *number*
        - **remote-mac** *mac-unicast-address*
      - **string** *string*
      - **vid** *number*
      - **vpn-id** *string*
    - **dns** *string*
    - **format** *keyword*
    - **level** *number*
    - **mac** *string*
    - **md-index** *number*
    - **name** *string*

11.1 eth-cfm Command Descriptions

eth-cfm

Context **configure**

Description Enter the eth-cfm context

Introduced 16.0.R1

domain [md-admin-name] *admin-name*

Context **configure eth-cfm**

Description Enter the domain context

Introduced 16.0.R1

[md-admin-name] *admin-name*

Context **configure eth-cfm domain** *admin-name*

Description Unique domain name

Introduced 16.0.R1

Notes This element is part of a list key

association [ma-admin-name] *admin-name*

Context **configure eth-cfm domain** *admin-name*

Description Enter the association context

Introduced 16.0.R1

[ma-admin-name] *admin-name*

Context **configure eth-cfm domain** *admin-name* **association** *admin-name*

Description Unique domain association name

Introduced 16.0.R1

Notes This element is part of a list key

auto-mep-discovery *boolean*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Enable the ability to auto-discover remote MEPs in the network
Default	false
Introduced	16.0.R1

bridge-identifier [bridge-name] *service-name*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Enter the bridge-identifier context
Max. Elements	1
Introduced	16.0.R1

[bridge-name] *service-name*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **bridge-identifier** *service-name*
Description	Bridge name for this association
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

id-permission *keyword*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **bridge-identifier** *service-name*
Description	Sender ID TLV information to include for installed MEPs and MIPs
Default	none
Options	none, chassis
Introduced	16.0.R1

mhf-creation *keyword*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **bridge-identifier** *service-name*
Description	MIP method of creation
Default	none
Options	none, default, explicit, static
Introduced	16.0.R1

mip-ltr-priority *number*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **bridge-identifier** *service-name*
Description	Priority of the Linktrace Response Message (ETH-LTR) from a MIP
Range	0 to 7
Default	7
Introduced	16.0.R1

vlan *number*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **bridge-identifier** *service-name*
Description	VLAN ID for the default domain index
Range	1 to 4094
Introduced	16.0.R1

ccm-hold-time

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Enter the ccm-hold-time context
Introduced	16.0.R1

down *number*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **ccm-hold-time**
Description	Additional time before a MEP declares a fault, in CCM timeout conditions
Range	1 to 1000
Units	centiseconds
Introduced	16.0.R1

ccm-interval *keyword*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	CCM transmission interval for all MEPs in the association
Options	10ms, 100ms, 1s, 10s, 60s, 600s
Introduced	16.0.R1

facility-id-permission *keyword*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Sender ID TLV information for facility base MEPs
Default	none
Options	none, chassis
Introduced	16.0.R1

icc-based *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Format type applicable to Y.1731 context of the maintenance association
String Length	8 to 13
Introduced	16.0.R1
Notes	This element is part of a choice

integer *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Format type of the maintenance association
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

ma-index *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	The index to the Maintenance Association (MA) table.
Range	1 to max
Introduced	16.0.R1

remote-mep [mep-id] *number*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Enter the remote-mep context
Introduced	16.0.R1

[mep-id] *number*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **remote-mep** *number*
Description	Remote MEP ID
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

remote-mac *mac-unicast-address*

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name* **remote-mep** *number*
Description	Remote MAC Address for transmitting CFM packets to remote MEPs
Introduced	16.0.R1

string *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Format type for the string of the maintenance association
String Length	1 to 45
Introduced	16.0.R1
Notes	This element is part of a choice

vid *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Primary VLAN ID
Range	0 to 4094
Introduced	16.0.R1
Notes	This element is part of a choice

vpn-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name* **association** *admin-name*
Description	Primary VPN ID
String Length	0 to 15
Introduced	16.0.R1
Notes	This element is part of a choice

dns *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name*
Description	Domain name like text string derived from a DNS name
String Length	1 to 43
Introduced	16.0.R1
Notes	This element is part of a choice

format *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name*
Description	Maintenance domain name not to be provided
Options	none
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name*
Description	Maintenance Domain Level (MD Level)
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

mac *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name*
Description	Maintenance domain MAC name
String Length	13 to 23
Introduced	16.0.R1
Notes	This element is part of a choice

md-index *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name*
Description	The index of the Maintenance Domain (MD)
Range	1 to max
Introduced	16.0.R1

name *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure eth-cfm domain** *admin-name*
Description	Maintenance domain name as an ASCII string
String Length	1 to 43
Introduced	16.0.R1
Notes	This element is part of a choice

12 filter Commands

configure
- **filter**
  - **dhcp-filter** *number*
    - **default-action**
      - **bypass-host-creation**
      - **drop**
    - **description** *string*
    - **entry** *number*
      - **action**
        - **bypass-host-creation**
        - **drop**
      - **option**
        - **absent**
        - **match**
          - **exact** *boolean*
          - **hex** *string*
          - **invert** *boolean*
          - **string** *string*
        - **number** *number*
        - **present**
  - **dhcp6-filter** *number*
    - **default-action**
      - **bypass-host-creation**
        - **na** *boolean*
        - **pd** *boolean*
      - **drop**
    - **description** *string*
    - **entry** *number*
      - **action**
        - **bypass-host-creation**
          - **na** *boolean*
          - **pd** *boolean*
        - **drop**
      - **option**
        - **absent**
        - **match**
          - **exact** *boolean*
          - **hex** *string*
          - **invert** *boolean*
          - **string** *string*
        - **number** *number*
        - **present**
  - **gre-tunnel-template** *string*
    - **description** *string*
    - **ipv4**
      - **destination-address** *ipv4-address*
      - **gre-key** (*keyword* | *number*)
      - **skip-ttl-decrement** *boolean*
      - **source-address** *ipv4-address*
  - **ip-filter** *filter-name*

- **chain-to-system-filter** *boolean*
- **default-action** *keyword*
- **description** *string*
- **embed**
  - **filter** *string* **offset** *number*
    - **admin-state** *keyword*
  - **flowspec offset** *number*
    - **admin-state** *keyword*
    - **group** *number*
    - **router-instance** *string*
  - **openflow** *string* **offset** *number*
    - **admin-state** *keyword*
    - **grt**
    - **sap** *string*
    - **system**
    - **vpls** *string*
    - **vprn** *string*
- **entry** *number*
  - **action**
    - **accept**
    - **drop**
    - **drop-when**
      - **extracted-traffic**
      - **packet-length**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
      - **pattern**
        - **expression** *string*
        - **mask** *string*
        - **offset-type** *keyword*
        - **offset-value** *number*
      - **ttl**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
    - **fc** *keyword*
    - **forward**
      - **bonding-connection** *bonding-connection-index*
      - **esi-l2**
        - **esi-value** *ethernet-segment-id*
        - **vpls** *string*
      - **esi-l3**
        - **esi-value** *ethernet-segment-id*
        - **sf-ip** *ipv4-address*
        - **vas-interface** *string*
        - **vprn** *string*
      - **gre-tunnel** *string*

- — **lsp** *string*
- — **next-hop**
  - — **interface-name** *string*
  - — **nh-ip**
    - — **address** *ipv4-address*
    - — **indirect** *boolean*
  - — **nh-ip-vrf**
    - — **address** *ipv4-address*
    - — **indirect** *boolean*
    - — **router-instance** *string*
- — **redirect-policy** *string*
- — **router-instance** *string*
- — **sap**
  - — **sap-id** *string*
  - — **vpls** *string*
- — **sdp**
  - — **sdp-bind-id** *sdp-bind-id*
  - — **vpls** *string*
- — **vprn-target**
  - — **adv-prefix** *ipv4-prefix*
  - — **bgp-nh** *ipv4-address*
  - — **lsp** *string*
  - — **vprn** *string*
- — **gtp-local-breakout**
- — **http-redirect**
  - — **allow-override** *boolean*
  - — **url** *http-redirect-url*
- — **ignore-match**
- — **nat**
  - — **nat-policy** *string*
- — **rate-limit**
  - — **packet-length**
    - — **eq** *number*
    - — **gt** *number*
    - — **lt** *number*
    - — **range**
      - — **end** *number*
      - — **start** *number*
  - — **pattern**
    - — **expression** *string*
    - — **mask** *string*
    - — **offset-type** *keyword*
    - — **offset-value** *number*
  - — **pir** (*number* | *keyword*)
  - — **ttl**
    - — **eq** *number*
    - — **gt** *number*
    - — **lt** *number*
    - — **range**
      - — **end** *number*
      - — **start** *number*
- — **reassemble**
- — **remark**
  - — **dscp** *keyword*

- **secondary**
  - **forward**
    - **next-hop**
      - **nh-ip-vrf**
        - **address** *ipv4-address*
        - **indirect** *boolean*
        - **router-instance** *string*
    - **sap**
      - **sap-id** *string*
      - **vpls** *string*
    - **sdp**
      - **sdp-bind-id** *sdp-bind-id*
      - **vpls** *string*
  - **remark**
    - **dscp** *keyword*
  - **tcp-mss-adjust**
- **description** *string*
- **egress-pbr** *keyword*
- **filter-sample** *boolean*
- **interface-sample** *boolean*
- **log** *string*
- **match**
  - **dscp** *keyword*
  - **dst-ip**
    - **address** (*string* | *string*)
    - **ip-prefix-list** *string*
    - **mask** *ipv4-address*
  - **dst-port**
    - **eq** *number*
    - **gt** *number*
    - **lt** *number*
    - **port-list** *string*
    - **range**
      - **end** *number*
      - **start** *number*
  - **fragment** *keyword*
  - **icmp**
    - **code** *number*
    - **type** *number*
  - **ip-option**
    - **mask** *number*
    - **type** *number*
  - **multiple-option** *boolean*
  - **option-present** *boolean*
  - **port**
    - **eq** *number*
    - **gt** *number*
    - **lt** *number*
    - **port-list** *string*
    - **range**
      - **end** *number*
      - **start** *number*
  - **protocol** (*number* | *keyword*)
  - **src-ip**

```
            — address (string | string)
            — ip-prefix-list string
            — mask ipv4-address
         — src-port
            — eq number
            — gt number
            — lt number
            — port-list string
            — range
               — end number
               — start number
         — src-route-option boolean
         — tcp-flags
            — ack boolean
            — cwr boolean
            — ece boolean
            — fin boolean
            — ns boolean
            — psh boolean
            — rst boolean
            — syn boolean
            — urg boolean
      — pbr-down-action-override keyword
      — sticky-dest (number | keyword)
   — filter-id number
   — scope keyword
   — subscriber-mgmt
      — host-specific-entry
         — credit-control
            — range
               — end number
               — start number
         — filter-rule
            — range
               — end number
               — start number
         — watermark
            — high number
            — low number
      — shared-entry
         — filter-rule
            — range
               — end number
               — start number
         — pcc-rule
            — range
               — end number
               — start number
         — watermark
            — high number
            — low number
— ipv6-filter filter-name
   — chain-to-system-filter boolean
   — default-action keyword
```

- **description** *string*
- **embed**
  - **filter** *string* **offset** *number*
    - **admin-state** *keyword*
  - **flowspec offset** *number*
    - **admin-state** *keyword*
    - **group** *number*
    - **router-instance** *string*
  - **openflow** *string* **offset** *number*
    - **admin-state** *keyword*
    - **grt**
    - **sap** *string*
    - **system**
    - **vpls** *string*
    - **vprn** *string*
- **entry** *number*
  - **action**
    - **accept**
    - **drop**
    - **drop-when**
      - **extracted-traffic**
      - **hop-limit**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
      - **pattern**
        - **expression** *string*
        - **mask** *string*
        - **offset-type** *keyword*
        - **offset-value** *number*
      - **payload-length**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
    - **fc** *keyword*
    - **forward**
      - **bonding-connection** *bonding-connection-index*
      - **esi-l2**
        - **esi-value** *ethernet-segment-id*
        - **vpls** *string*
      - **esi-l3**
        - **esi-value** *ethernet-segment-id*
        - **sf-ip** *ipv6-address*
        - **vas-interface** *string*
        - **vprn** *string*
      - **gre-tunnel** *string*
      - **lsp** *string*
      - **next-hop**

- — **nh-ip**
  - — **address** *ipv6-address*
  - — **indirect** *boolean*
- — **nh-ip-vrf**
  - — **address** *ipv6-address*
  - — **indirect** *boolean*
  - — **router-instance** *string*
- — **redirect-policy** *string*
- — **router-instance** *string*
- — **sap**
  - — **sap-id** *string*
  - — **vpls** *string*
- — **sdp**
  - — **sdp-bind-id** *sdp-bind-id*
  - — **vpls** *string*
- — **vprn-target**
  - — **adv-prefix** *ipv6-prefix*
  - — **bgp-nh** *ipv4-address*
  - — **lsp** *string*
  - — **vprn** *string*
- — **http-redirect**
  - — **allow-override** *boolean*
  - — **url** *http-redirect-url*
- — **ignore-match**
- — **nat**
  - — **nat-policy** *string*
  - — **nat-type** *keyword*
- — **rate-limit**
  - — **hop-limit**
    - — **eq** *number*
    - — **gt** *number*
    - — **lt** *number*
    - — **range**
      - — **end** *number*
      - — **start** *number*
  - — **pattern**
    - — **expression** *string*
    - — **mask** *string*
    - — **offset-type** *keyword*
    - — **offset-value** *number*
  - — **payload-length**
    - — **eq** *number*
    - — **gt** *number*
    - — **lt** *number*
    - — **range**
      - — **end** *number*
      - — **start** *number*
  - — **pir** (*number* | *keyword*)
- — **remark**
  - — **dscp** *keyword*
- — **secondary**
  - — **forward**
    - — **next-hop**
      - — **nh-ip-vrf**

```
                        — address ipv6-address
                        — indirect boolean
                        — router-instance string
                    — sap
                        — sap-id string
                        — vpls string
                    — sdp
                        — sdp-bind-id sdp-bind-id
                        — vpls string
                — remark
                    — dscp keyword
            — tcp-mss-adjust
    — description string
    — egress-pbr keyword
    — filter-sample boolean
    — interface-sample boolean
    — log string
    — match
        — dscp keyword
        — dst-ip
            — address (string | string)
            — ipv6-prefix-list string
            — mask ipv6-address
        — dst-port
            — eq number
            — gt number
            — lt number
            — port-list string
            — range
                — end number
                — start number
        — extension-header
            — ah boolean
            — esp boolean
            — hop-by-hop boolean
            — routing-type0 boolean
        — flow-label
            — mask number
            — value number
        — fragment keyword
        — icmp
            — code number
            — type number
        — next-header (number | keyword)
        — port
            — eq number
            — gt number
            — lt number
            — port-list string
            — range
                — end number
                — start number
        — src-ip
            — address (string | string)
```

- **ipv6-prefix-list** *string*
- **mask** *ipv6-address*
- **src-port**
- **eq** *number*
- **gt** *number*
- **lt** *number*
- **port-list** *string*
- **range**
- **end** *number*
- **start** *number*
- **tcp-flags**
- **ack** *boolean*
- **cwr** *boolean*
- **ece** *boolean*
- **fin** *boolean*
- **ns** *boolean*
- **psh** *boolean*
- **rst** *boolean*
- **syn** *boolean*
- **urg** *boolean*
- **pbr-down-action-override** *keyword*
- **sticky-dest** (*number* | *keyword*)
- **filter-id** *number*
- **scope** *keyword*
- **subscriber-mgmt**
- **host-specific-entry**
- **credit-control**
- **range**
- **end** *number*
- **start** *number*
- **filter-rule**
- **range**
- **end** *number*
- **start** *number*
- **watermark**
- **high** *number*
- **low** *number*
- **shared-entry**
- **filter-rule**
- **range**
- **end** *number*
- **start** *number*
- **pcc-rule**
- **range**
- **end** *number*
- **start** *number*
- **watermark**
- **high** *number*
- **low** *number*
- **log** *number*
- **admin-state** *keyword*
- **description** *string*
- **destination**
- **memory**

```
            — max-entries number
            — stop-on-full boolean
         — syslog
            — summary
               — admin-state keyword
               — summary-crit keyword
            — syslog-id string
   — mac-filter filter-name
      — default-action keyword
      — description string
      — embed
      — entry number
         — action
            — accept
            — drop
            — forward
               — esi-l2
                  — esi-value ethernet-segment-id
                  — vpls string
               — sap
                  — sap-id string
                  — vpls string
               — sdp
                  — sdp-bind-id sdp-bind-id
                  — vpls string
            — http-redirect
               — url http-redirect-url
            — ignore-match
            — rate-limit
               — pir (number | keyword)
            — secondary
               — forward
                  — sap
                     — sap-id string
                     — vpls string
                  — sdp
                     — sdp-bind-id sdp-bind-id
                     — vpls string
         — description string
         — log string
         — match
            — dot1p
               — mask number
               — priority number
            — dst-mac
               — address mac-address
               — mask mac-address
            — etype etype-value
            — frame-type keyword
            — inner-tag
               — mask number
               — tag number
            — isid
               — range
```

```
                        — end number
                        — start number
                    — value number
                — llc-dsap
                    — dsap number
                    — mask number
                — llc-ssap
                    — mask number
                    — ssap number
                — outer-tag
                    — mask number
                    — tag number
                — snap-oui keyword
                — snap-pid number
                — src-mac
                    — address mac-address
                    — mask mac-address
            — pbr-down-action-override keyword
            — sticky-dest (number | keyword)
        — filter-id number
        — scope keyword
        — type keyword
    — match-list
        — ip-prefix-list string
            — apply-path
                — bgp-peers number
                    — group regular-expression-not-all-spaces
                    — neighbor regular-expression-not-all-spaces
                    — router-instance string
            — description string
            — prefix ipv4-prefix
            — prefix-exclude ipv4-prefix
        — ipv6-prefix-list string
            — apply-path
                — bgp-peers number
                    — group regular-expression-not-all-spaces
                    — neighbor regular-expression-not-all-spaces
                    — router-instance string
            — description string
            — prefix ipv6-prefix
            — prefix-exclude ipv6-prefix
        — port-list string
            — description string
            — port number
            — range start number end number
    — md-auto-id
        — filter-id-range
            — end number
            — start number
    — redirect-policy string
        — admin-state keyword
        — description string
        — destination (ipv4-address-no-zone | ipv6-address-no-zone)
            — admin-state keyword
```

- — **description** *string*
- — **ping-test**
  - — **drop-count** *number*
  - — **hold-down** *number*
  - — **interval** *number*
  - — **source-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  - — **timeout** *number*
- — **priority** *number*
- — **unicast-rt-test**
- — **notify-dest-change** *boolean*
- — **router-instance** *string*
- — **sticky-dest** (*number* | *keyword*)

— **redirect-policy-binding** *string*

- — **binding-operator** *keyword*
- — **redirect-policy** *string*
  - — **destination** *string*

— **system-filter**

- — **ip** *string*
- — **ipv6** *string*

12.1 filter Command Descriptions

filter

Context	**configure**
Description	Enter the filter context
Introduced	16.0.R1

dhcp-filter [filter-id] *number*

Context	**configure filter**
Description	Enter the dhcp-filter context
Introduced	16.0.R1

[filter-id] *number*

Context	**configure filter dhcp-filter** *number*
Description	Unique DHCP filter policy ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

default-action

Context	**configure filter dhcp-filter** *number*
Description	Enter the default-action context
Introduced	16.0.R1

bypass-host-creation

Context	**configure filter dhcp-filter** *number* **default-action**
Description	Host creation options to bypass
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter dhcp-filter** *number* **default-action**
Description	DHCP host creation when the filter entry is matched
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure filter dhcp-filter** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure filter dhcp-filter** *number*
Description	Enter the entry context
Max. Elements	10
Introduced	16.0.R1

[entry-id] *number*

Context	**configure filter dhcp-filter** *number* **entry** *number*
Description	DHCP filter entry index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure filter dhcp-filter** *number* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

bypass-host-creation

Context	**configure filter dhcp-filter** *number* **entry** *number* **action**
Description	Host creation options to bypass
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter dhcp-filter** *number* **entry** *number* **action**
Description	DHCP host creation when the filter entry is matched
Introduced	16.0.R1
Notes	This element is part of a choice

option

Context	**configure filter dhcp-filter** *number* **entry** *number*
Description	Enter the option context
Introduced	16.0.R1

absent

Context	**configure filter dhcp-filter** *number* **entry** *number* **option**
Description	Require the absence of related option
Introduced	16.0.R1
Notes	This element is part of a choice

match

Context	**configure filter dhcp-filter** *number* **entry** *number* **option**
Description	Enter the **match** context
Introduced	16.0.R1

exact *boolean*

Context	**configure filter dhcp-filter** *number* **entry** *number* **option match**
Description	Use an exact match pattern (not partial)
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

hex *string*

Context	**configure filter dhcp-filter** *number* **entry** *number* **option match**
Description	Matching pattern for the filtered option
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

invert *boolean*

Context	**configure filter dhcp-filter** *number* **entry** *number* **option match**
Description	Invert (partial) matching criteria
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure filter dhcp-filter** *number* **entry** *number* **option match**
Description	Matching pattern for the filtered option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

number *number*

Context	**configure filter dhcp-filter** *number* **entry** *number* **option**
Description	Number for DHCP or DHCPv6 option to filter on
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

present

Context	**configure filter dhcp-filter** *number* **entry** *number* **option**
Description	Require the presence of related option
Introduced	16.0.R1
Notes	This element is part of a choice

dhcp6-filter [filter-id] *number*

Context	**configure filter**
Description	Enter the dhcp6-filter context
Introduced	16.0.R1

[filter-id] *number*

Context	**configure filter dhcp6-filter** *number*
Description	Unique DHCP filter policy ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

default-action

Context	**configure filter dhcp6-filter** *number*
Description	Enter the default-action context
Introduced	16.0.R1

bypass-host-creation

Context	**configure filter dhcp6-filter** *number* **default-action**
Description	Enter the **bypass-host-creation** context
Introduced	16.0.R1

na *boolean*

Context	**configure filter dhcp6-filter** *number* **default-action bypass-host-creation**
Description	Bypass the DHCPv6 NA host creation
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

pd *boolean*

Context	**configure filter dhcp6-filter** *number* **default-action bypass-host-creation**
Description	Bypass the DHCPv6 PD host creation
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter dhcp6-filter** *number* **default-action**
Description	Drop DHCPv6 message (do not process)
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure filter dhcp6-filter** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure filter dhcp6-filter** *number*
Description	Enter the entry context
Max. Elements	10
Introduced	16.0.R1

[entry-id] *number*

Context	**configure filter dhcp6-filter** *number* **entry** *number*
Description	DHCP filter entry index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure filter dhcp6-filter** *number* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

bypass-host-creation

Context	**configure filter dhcp6-filter** *number* **entry** *number* **action**
Description	Enter the **bypass-host-creation** context
Introduced	16.0.R1

na *boolean*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **action bypass-host-creation**
Description	Bypass the DHCPv6 NA host creation
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

pd *boolean*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **action bypass-host-creation**
Description	Bypass the DHCPv6 PD host creation
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter dhcp6-filter** *number* **entry** *number* **action**
Description	Drop DHCPv6 message (do not process)
Introduced	16.0.R1
Notes	This element is part of a choice

option

Context	**configure filter dhcp6-filter** *number* **entry** *number*
Description	Enter the option context
Introduced	16.0.R1

absent

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option**
Description	Require the absence of related option
Introduced	16.0.R1
Notes	This element is part of a choice

match

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option**
Description	Enter the **match** context
Introduced	16.0.R1

exact *boolean*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option match**
Description	Use an exact match pattern (not partial)
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

hex *string*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option match**
Description	Matching pattern for the filtered option
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

invert *boolean*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option match**
Description	Invert (partial) matching criteria
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option match**
Description	Matching pattern for the filtered option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

number *number*

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option**
Description	Number for DHCP or DHCPv6 option to filter on
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

present

Context	**configure filter dhcp6-filter** *number* **entry** *number* **option**
Description	Require the presence of related option
Introduced	16.0.R1
Notes	This element is part of a choice

gre-tunnel-template [gre-tunnel-template-name] *string*

Context	**configure filter**
Description	Enter the gre-tunnel-template context
Max. Elements	1023
Introduced	16.0.R1

[gre-tunnel-template-name] *string*

Context	**configure filter gre-tunnel-template** *string*
Description	GRE tunnel template identifier
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure filter gre-tunnel-template** *string*
Description	The description of the filter gre tunnel template configuration.
String Length	1 to 80
Introduced	16.0.R3

ipv4

Context **configure filter gre-tunnel-template** *string*
Description Enter the ipv4 context
Introduced 16.0.R1

destination-address [address] *ipv4-address*

Context **configure filter gre-tunnel-template** *string* **ipv4**
Description Enter the destination-address context
Max. Elements 32
Introduced 16.0.R1

[address] *ipv4-address*

Context **configure filter gre-tunnel-template** *string* **ipv4 destination-address** *ipv4-address*
Description Destination IP address
Introduced 16.0.R1
Notes This element is part of a list key

gre-key (*keyword* | *number*)

Context **configure filter gre-tunnel-template** *string* **ipv4**
Description GRE key
Introduced 16.0.R1

skip-ttl-decrement *boolean*

Context **configure filter gre-tunnel-template** *string* **ipv4**
Description Decrement TTL
Default false
Introduced 16.0.R1

source-address *ipv4-address*

Context	**configure filter gre-tunnel-template** *string* **ipv4**
Description	Source IP address of the GRE encapsulated
Default	0.0.0.0
Introduced	16.0.R1

ip-filter [filter-name] *filter-name*

Context	**configure filter**
Description	Enter the ip-filter context
Introduced	16.0.R1

[filter-name] *filter-name*

Context	**configure filter ip-filter** *filter-name*
Description	Name of the object to associate
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

chain-to-system-filter *boolean*

Context	**configure filter ip-filter** *filter-name*
Description	Chain filter policy to the active IPvX system filter policy
Default	false
Introduced	16.0.R1

default-action *keyword*

Context	**configure filter ip-filter** *filter-name*
Description	Action for packets that do not match any entry
Default	drop
Options	drop, accept
Introduced	16.0.R1

description *string*

Context	**configure filter ip-filter** *filter-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

embed

Context	**configure filter ip-filter** *filter-name*
Description	Enter the embed context
Introduced	16.0.R1

filter [name] *string* **offset** *number*

Context	**configure filter ip-filter** *filter-name* **embed**
Description	Enter the filter context
Introduced	16.0.R1

[name] *string*

Context	**configure filter ip-filter** *filter-name* **embed filter** *string* **offset** *number*
Description	ID of the filter to insert
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1
Notes	This element is part of a list key

offset *number*

Context	**configure filter ip-filter** *filter-name* **embed filter** *string* **offset** *number*
Description	Offset of the inserted entries
Range	0 to 2097150
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter ip-filter** *filter-name* **embed filter** *string* **offset** *number*
Description	Administrative state of this embedding
Default	enable
Options	enable, disable
Introduced	16.0.R1

flowspec offset *number*

Context	**configure filter ip-filter** *filter-name* **embed**
Description	Enter the flowspec context
Introduced	16.0.R1

offset *number*

Context	**configure filter ip-filter** *filter-name* **embed flowspec offset** *number*
Description	Offset of the inserted entries
Range	0 to 2097151
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter ip-filter** *filter-name* **embed flowspec offset** *number*
Description	Administrative state of this embedding
Default	enable
Options	enable, disable
Introduced	16.0.R1

group *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed flowspec offset** *number*
Description	Interface group ID for an external configured set of flowspec rules
Range	0 to 16383
Introduced	16.0.R1

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed flowspec offset** *number*
Description	Virtual router for an external configured set of flowspec rules
Introduced	16.0.R1
Notes	This element is mandatory

openflow [of-switch] *string* **offset** *number*

Context	**configure filter ip-filter** *filter-name* **embed**
Description	Enter the openflow context
Introduced	16.0.R3

[of-switch] *string*

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Openflow switch which contains the flowtable to be inserted in the parent filter.
Reference	configure **openflow of-switch** *string*
Introduced	16.0.R4
Notes	This element is part of a list key

offset *number*

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Offset of the inserted entries
Range	0 to 2097150
Introduced	16.0.R2
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Administrative state of this embedding
Default	enable
Options	enable, disable
Introduced	16.0.R2

grt

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Global routing context.
Introduced	16.0.R3
Notes	This element is part of a choice

sap *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Sap context.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R4
Notes	This element is part of a choice

system

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	System context.
Introduced	16.0.R3
Notes	This element is part of a choice

vpls *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Vpls context.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R4
Notes	This element is part of a choice

vprn *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Vprn context.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R4
Notes	This element is part of a choice

entry [entry-id] *number*

Context	**configure filter ip-filter** *filter-name*
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Secondary index for this entry
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

accept

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Accept regular routing to forward a packet that matches this entry
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Drop a packet matching this entry
Introduced	16.0.R1
Notes	This element is part of a choice

drop-when

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Enter the drop-when context
Introduced	16.0.R1

extracted-traffic

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when**

Description Drop traffic extracted to CPM

Introduced 16.0.R1

Notes This element is part of a choice

packet-length

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when**

Description Enter the **packet-length** context

Introduced 16.0.R1

eq *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when packet-length**

Description Value to compare against 'equal' condition for entry match criteria

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when packet-length**

Description Value to compare against 'greater than' condition for entry match criteria

Range min to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when packet-length**

Description Value to compare against 'less than' condition for entry match criteria

Range 1 to max

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when packet-length**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when packet-length range**

Description Upper bound value

Range 1 to max

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when packet-length range**

Description Lower bound value

Range min to 65534

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

pattern

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when**

Description Enter the pattern context

Introduced 16.0.R1

expression *string*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action drop-when pattern**

Description Expression to be matched.

String Length 1 to 8

Introduced 16.0.R1

Notes This element is mandatory

mask *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Expression mask.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

offset-type *keyword*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Offset type.
Options	layer-3, layer-4, data, dns-qtype
Introduced	16.0.R1
Notes	This element is mandatory

offset-value *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Offset value.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

ttl

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when**
Description	Enter the **ttl** context
Introduced	16.0.R1

eq *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when ttl**
Description	Value to compare against 'equal' condition for entry match criteria
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when ttl**
Description	Value to compare against 'greater than' condition for entry match criteria
Range	min to 254
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when ttl**
Description	Value to compare against 'less than' condition for entry match criteria
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when ttl**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when ttl range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action drop-when ttl range**
Description	Lower bound value
Range	min to 254
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

fc *keyword*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action**

Description Class name to be forwarded for matching packets

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

forward

Context **configure filter ip-filter** *filter-name* **entry** *number* **action**

Description Enter the **forward** context

Introduced 16.0.R1

bonding-connection *bonding-connection-index*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action forward**

Description Connection ID over which packet is forwarded in a bonding context, if connection is available

Range 1 to 2

Introduced 16.0.R1

Notes This element is part of a choice

esi-l2

Context **configure filter ip-filter** *filter-name* **entry** *number* **action forward**

Description Enter the **esi-l2** context

Introduced 16.0.R1

esi-value *ethernet-segment-id*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action forward esi-l2**

Description ID of first ESI identified appliance in Nuage service chain

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

vpls *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward esi-l2**
Description	Specifies the identifier of the VPLS used for VPN/DC connectivity.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R3
Notes	This element is mandatory This element is part of a choice

esi-l3

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **esi-l3** context
Introduced	16.0.R1

esi-value *ethernet-segment-id*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	Specifies the ethernet segment identifier (ESI) of the first ESI identified appliance in Nuage service chain.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sf-ip *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	Specifies the IP address of the service function toward which traffic is steered.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vas-interface *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	VRI index of VPRN RVPLS interface for VPN DC connectivity
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vprn *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	Specifies the routing context used for route lookup.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

gre-tunnel *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	GRE tunnel template ID that sets the location where an encapsulated matching packet is transported
Reference	configure **filter gre-tunnel-template** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

lsp *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	LSP that is specified to forward a packet matching this entry
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

next-hop

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **next-hop** context
Introduced	16.0.R1

interface-name *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop**
Description	Local interface that forwards the packet matchin this entry
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

nh-ip

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop**
Description	Enter the **nh-ip** context
Introduced	16.0.R1

address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip**
Description	Specifies the IP address of the nexthop to which the packet should be forwarded if it hits this filter entry.
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

indirect *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip**
Description	Allow next hop to be indirectly reachable
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

nh-ip-vrf

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop**
Description	Enter the **nh-ip-vrf** context
Introduced	16.0.R1

address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip-vrf**
Description	Specifies the IP address of the nexthop to which the packet should be forwarded if it hits this filter entry.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

indirect *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip-vrf**
Description	Allow next hop to be indirectly reachable
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip-vrf**
Description	Specifies the routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

redirect-policy *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Next hop or forward next hop router that forwards a packet that matches this entry
Reference	configure **filter redirect-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Specifies the routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is part of a choice

sap

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **sap** context
Introduced	16.0.R1

sap-id *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward sap**
Description	A packet matching the entry will be forwarded using the specified SAP.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward sap**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sdp

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **sdp** context
Introduced	16.0.R1

sdp-bind-id *sdp-bind-id*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward sdp**
Description	A packet matching the entry will be forwarded using the specified SDP.
String Length	3 to 16
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward sdp**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vprn-target

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **vprn-target** context
Introduced	16.0.R1

adv-prefix *ipv4-prefix*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	Advertised IP prefix for target destination
Introduced	16.0.R1
Notes	This element is part of a choice

bgp-nh *ipv4-address*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	Target BGP next hop IP address
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

lsp *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	LSP that is specified to forward a packet matching this entry
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

vprn *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	Specifies the routing context used for route lookup.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

gtp-local-breakout

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Break out matching traffic locally from a GTP tunnel for GTP-subscriber-hosts, or forward for other entities
Introduced	16.0.R1
Notes	This element is part of a choice

http-redirect

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Enter the **http-redirect** context
Introduced	16.0.R1

allow-override *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action http-redirect**
Description	Override http-redirect by a RADIUS VSA
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

url *http-redirect-url*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action http-redirect**
Description	URL that is used for redirecting
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

ignore-match

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Ignore match criteria for the entry
Introduced	16.0.R1
Notes	This element is part of a choice

nat

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Enter the **nat** context
Introduced	16.0.R1

nat-policy *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action nat**
Description	NAT policy name when action is NAT
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1
Notes	This element is part of a choice

rate-limit

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Enter the rate-limit context
Introduced	16.0.R1

packet-length

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Enter the **packet-length** context
Introduced	16.0.R1

eq *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit packet-length**
Description	Value to compare against 'equal' condition for entry match criteria
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit packet-length**
Description	Value to compare against 'greater than' condition for entry match criteria
Range	min to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit packet-length**
Description	Value to compare against 'less than' condition for entry match criteria
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit packet-length**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit packet-length range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

start *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit packet-length range**
Description	Lower bound value
Range	min to 65534
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

pattern

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Enter the pattern context
Introduced	16.0.R1

expression *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Expression to be matched.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

mask *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Expression mask.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

offset-type *keyword*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Offset type.
Options	layer-3, layer-4, data, dns-qtype
Introduced	16.0.R1
Notes	This element is mandatory

offset-value *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Offset value.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

pir (*number* | *keyword*)

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Peak information rate
Introduced	16.0.R1
Notes	This element is mandatory

ttl

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Enter the **ttl** context
Introduced	16.0.R1

eq *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit ttl**
Description	Value to compare against 'equal' condition for entry match criteria
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit ttl**
Description	Value to compare against 'greater than' condition for entry match criteria
Range	min to 254
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit ttl**
Description	Value to compare against 'less than' condition for entry match criteria
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit ttl**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit ttl range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action rate-limit ttl range**
Description	Lower bound value
Range	min to 254
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

reassemble

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Forward matching packets to reassembly function
Introduced	16.0.R1
Notes	This element is part of a choice

remark

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Enter the remark context
Introduced	16.0.R1

dscp *keyword*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action remark**
Description	Destination SAP
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is mandatory

secondary

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Enter the secondary context
Introduced	16.0.R1

forward

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary**

Description Enter the **forward** context

Introduced 16.0.R1

next-hop

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward**

Description Enter the **next-hop** context

Introduced 16.0.R1

nh-ip-vrf

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward next-hop**

Description Enter the **nh-ip-vrf** context

Introduced 16.0.R1

address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward next-hop nh-ip-vrf**

Description Specifies the IP address of the nexthop to which the packet should be forwarded if it hits this filter entry.

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

indirect *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward next-hop nh-ip-vrf**

Description Allow next hop to be indirectly reachable

Default false

Introduced 16.0.R1

Notes This element is part of a choice

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward next-hop nh-ip-vrf**
Description	Specifies the routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sap

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward**
Description	Enter the **sap** context
Introduced	16.0.R1

sap-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward sap**
Description	A packet matching the entry will be forwarded using the specified SAP.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward sap**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

sdp

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward**

Description Enter the **sdp** context

Introduced 16.0.R1

sdp-bind-id *sdp-bind-id*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward sdp**

Description A packet matching the entry will be forwarded using the specified SDP.

String Length 3 to 16

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

vpls *string*

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary forward sdp**

Description VPLS the sdp-bind-id belongs to.

Reference configure **service vpls** *service-name*

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

remark

Context **configure filter ip-filter** *filter-name* **entry** *number* **action secondary**

Description Enter the remark context

Introduced 16.0.R1

dscp *keyword*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action secondary remark**
Description	Destination SAP
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is mandatory

tcp-mss-adjust

Context	**configure filter ip-filter** *filter-name* **entry** *number* **action**
Description	Adjust MSS option of TCP matching packets to configured value of tcp-mss in router interface context
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-pbr *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	PBR that has an effect when this filter is applied on egress
Options	true, true-with-l4lb
Introduced	16.0.R1

filter-sample *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Sample matching traffic if IP interface is set to cflowd ACL mode
Default	false
Introduced	16.0.R1

interface-sample *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Sample matching traffic if IP interface is set to cflowd interface mode
Default	true
Introduced	16.0.R1

log *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Log that is used for packets matching this entry
Reference	configure **filter log** *number*
Introduced	16.0.R1

match

Context	**configure filter ip-filter** *filter-name* **entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Specifies the DSCP to be matched on the packet.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R5

dst-ip

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-ip**
Description	IP address to match
Introduced	16.0.R1
Notes	This element is part of a choice

ip-prefix-list *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-ip**
Description	IP prefix list as match criterion for IP address
Reference	configure **filter match-list ip-prefix-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

mask *ipv4-address*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-ip**
Description	Mask as an AND to the IP address
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Enter the **dst-port** context
Introduced	16.0.R5

eq *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port**
Description	Equal to specified value
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port**
Description	Greater than specified value
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port**
Description	Less than specified value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port**
Description	Parameter port-list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

start *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

fragment *keyword*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	If not default, matches fragmented/unfragmented packets as per value of the object.
Options	false, true
Introduced	16.0.R5

icmp

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Enter the icmp context
Introduced	16.0.R1

code *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match icmp**
Description	ICMP code value to match. ICMP code and ICMP type must both be set to enable ICMP matching.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

type *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match icmp**
Description	ICMP type value to match. ICMP code and ICMP type must both be set to enable ICMP matching.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

ip-option

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Enter the ip-option context
Introduced	16.0.R1

mask *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match ip-option**
Description	Mask that is ANDed with ip-option value in the packet header
Range	1 to 255
Default	255
Introduced	16.0.R1

type *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match ip-option**
Description	Specific IP option to match
Introduced	16.0.R1
Notes	This element is mandatory

multiple-option *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	If enabled, matches multiple options as per the value of the object.
Introduced	16.0.R5

option-present *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Matches the presence of IP options in the IPv4 packet. Padding and EOOL are also considered as IP options. Up to six IP options are matched against.
Introduced	16.0.R5

port

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Enter the **port** context
Introduced	16.0.R5

eq *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port**
Description	Equal to specified value
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port**
Description	Greater than specified value
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port**
Description	Less than specified value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port**
Description	Parameter port-list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port range**
Description	Lower bound port to match
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match port range**
Description	Lower bound port to match
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

protocol (*number* | *keyword*)

Context **configure filter ip-filter** *filter-name* **entry** *number* **match**

Description IP protocol to match.

Introduced 16.0.R5

src-ip

Context **configure filter ip-filter** *filter-name* **entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-ip**

Description IP address to match

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-ip**

Description IP prefix list as match criterion for IP address

Reference configure **filter match-list ip-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-ip**

Description Mask as an AND to the IP address

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure filter ip-filter** *filter-name* **entry** *number* **match**

Description Enter the **src-port** context

Introduced 16.0.R5

eq *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-port**

Description Equal to specified value

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-port**

Description Greater than specified value

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-port**

Description Less than specified value

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

port-list *string*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match src-port**

Description Parameter port-list as match criterion

Reference configure **filter match-list port-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

range

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match src-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match src-port range**
Description	Lower bound port to match
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match src-port range**
Description	Lower bound port to match
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

src-route-option *boolean*

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	This leaf specifies, when enabled, that this filter should match if a (strict or loose) source route option is present/not present at any location within the IP header, as per the value of this object.
Introduced	16.0.R5

tcp-flags

Context	**configure filter ip-filter** *filter-name* **entry** *number* **match**
Description	Enter the tcp-flags context
Introduced	16.0.R1

ack *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP ACK as per value of the ACK TCP flag bit

Introduced 16.0.R1

cwr *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP CWR as per value of the CWR TCP flag bit

Introduced 16.0.R1

ece *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP ECE as per value of the ECE TCP flag bit

Introduced 16.0.R1

fin *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP FIN as per value of the FIN TCP flag bit

Introduced 16.0.R1

ns *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP NS as per value of the NS TCP flag bit

Introduced 16.0.R1

psh *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP PSH as per value of the PSH TCP flag bit

Introduced 16.0.R1

rst *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP RST as per value of the RST TCP flag bit

Introduced 16.0.R1

syn *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP SYN as per value of the SYN TCP flag bit

Introduced 16.0.R1

urg *boolean*

Context **configure filter ip-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP URG as per value of the URG TCP flag bit

Introduced 16.0.R1

pbr-down-action-override *keyword*

Context **configure filter ip-filter** *filter-name* **entry** *number*

Description Action when PBR or PBF target for this entry is not available

Options drop, forward, filter-default-action

Introduced 16.0.R1

sticky-dest (*number* | *keyword*)

Context **configure filter ip-filter** *filter-name* **entry** *number*

Description Time before action with available PBR or PBF destination and highest priority

Units seconds

Introduced 16.0.R1

filter-id *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name*
Description	IP filter ID
Range	1 to 65535
Introduced	16.0.R1

scope *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ip-filter** *filter-name*
Description	Scope of this filter definition
Default	template
Options	exclusive, template, embedded, system
Introduced	16.0.R1

subscriber-mgmt

Context	**configure filter ip-filter** *filter-name*
Description	Enter the subscriber-mgmt context
Introduced	16.0.R1

host-specific-entry

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt**
Description	Enter the host-specific-entry context
Introduced	16.0.R1

credit-control

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry**
Description	Enter the credit-control context
Introduced	16.0.R1

range

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry credit-control**

Description Enter the range context

Introduced 16.0.R1

end *number*

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry credit-control range**

Description Upper bound of range for entries from Credit Control

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

start *number*

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry credit-control range**

Description Lower bound of range for entries from Credit Control

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

filter-rule

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry**

Description Enter the filter-rule context

Introduced 16.0.R1

range

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry filter-rule**

Description Enter the range context

Introduced 16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry filter-rule range**
Description	Upper bound of range for filter-rule entries from RADIUS/Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry filter-rule range**
Description	Lower bound of range for subscriber host filter-rule entries from RADIUS/Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

watermark

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry**
Description	Enter the watermark context
Introduced	16.0.R1

high *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry watermark**
Description	High watermark for host-specific entries, to raise a table full alarm
Range	0 to 100
Default	95
Introduced	16.0.R1

low *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt host-specific-entry watermark**
Description	Low watermark for host-specific entries, to clear a table full alarm
Range	0 to 100
Default	90
Introduced	16.0.R1

shared-entry

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt**

Description Enter the shared-entry context

Introduced 16.0.R1

filter-rule

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry**

Description Enter the filter-rule context

Introduced 16.0.R1

range

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry filter-rule**

Description Enter the range context

Introduced 16.0.R1

end *number*

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry filter-rule range**

Description Upper bound of range for shared-filter rules from RADIUS

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

start *number*

Context **configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry filter-rule range**

Description Lower bound of range for shared filter-rules from RADIUS

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

pcc-rule

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry**
Description	Enter the pcc-rule context
Introduced	16.0.R1

range

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry pcc-rule**
Description	Enter the range context
Introduced	16.0.R1

end *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry pcc-rule range**
Description	Upper bound of range for pcc-rule filter entries from Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry pcc-rule range**
Description	Lower bound of range for pcc-rule filter entries from Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

watermark

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry**
Description	Enter the watermark context
Introduced	16.0.R1

high *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry watermark**
Description	Limit of RADIUS shared filters before generating high watermark notification
Range	1 to 8000
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure filter ip-filter** *filter-name* **subscriber-mgmt shared-entry watermark**
Description	Limit of RADIUS or Diameter shared filters before clearing high watermark notification
Range	0 to 7999
Introduced	16.0.R1
Notes	This element is mandatory

ipv6-filter [filter-name] *filter-name*

Context	**configure filter**
Description	Enter the ipv6-filter context
Introduced	16.0.R1

[filter-name] *filter-name*

Context	**configure filter ipv6-filter** *filter-name*
Description	Name of the object to associate
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

chain-to-system-filter *boolean*

Context	**configure filter ipv6-filter** *filter-name*
Description	Chain filter policy to the active IPvX system filter policy
Default	false
Introduced	16.0.R1

default-action *keyword*

Context	**configure filter ipv6-filter** *filter-name*
Description	Action for packets that do not match any entry
Default	drop
Options	drop, accept
Introduced	16.0.R1

description *string*

Context	**configure filter ipv6-filter** *filter-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

embed

Context	**configure filter ipv6-filter** *filter-name*
Description	Enter the embed context
Introduced	16.0.R1

filter [name] *string* **offset** *number*

Context	**configure filter ipv6-filter** *filter-name* **embed**
Description	Enter the filter context
Introduced	16.0.R1

[name] *string*

Context	**configure filter ipv6-filter** *filter-name* **embed filter** *string* **offset** *number*
Description	ID of the filter to insert
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R1
Notes	This element is part of a list key

offset *number*

Context	**configure filter ipv6-filter** *filter-name* **embed filter** *string* **offset** *number*
Description	Offset of the inserted entries
Range	0 to 2097150
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter ipv6-filter** *filter-name* **embed filter** *string* **offset** *number*
Description	Administrative state of this embedding
Default	enable
Options	enable, disable
Introduced	16.0.R1

flowspec offset *number*

Context	**configure filter ipv6-filter** *filter-name* **embed**
Description	Enter the flowspec context
Introduced	16.0.R1

offset *number*

Context	**configure filter ipv6-filter** *filter-name* **embed flowspec offset** *number*
Description	Offset of the inserted entries
Range	0 to 2097151
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter ipv6-filter** *filter-name* **embed flowspec offset** *number*
Description	Administrative state of this embedding
Default	enable
Options	enable, disable
Introduced	16.0.R1

group *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed flowspec offset** *number*
Description	Interface group ID for an external configured set of flowspec rules
Range	0 to 16383
Introduced	16.0.R1

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed flowspec offset** *number*
Description	Virtual router for an external configured set of flowspec rules
Introduced	16.0.R1
Notes	This element is mandatory

openflow [of-switch] *string* **offset** *number*

Context	**configure filter ipv6-filter** *filter-name* **embed**
Description	Enter the openflow context
Introduced	16.0.R3

[of-switch] *string*

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Openflow switch which contains the flowtable to be inserted in the parent filter.
Reference	configure **openflow of-switch** *string*
Introduced	16.0.R4
Notes	This element is part of a list key

offset *number*

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Offset of the inserted entries
Range	0 to 2097150
Introduced	16.0.R2
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Administrative state of this embedding
Default	enable
Options	enable, disable
Introduced	16.0.R2

grt

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Global routing context.
Introduced	16.0.R3
Notes	This element is part of a choice

sap *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Sap context.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R4
Notes	This element is part of a choice

system

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	System context.
Introduced	16.0.R3
Notes	This element is part of a choice

vpls *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Vpls context.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R4
Notes	This element is part of a choice

vprn *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **embed openflow** *string* **offset** *number*
Description	Vprn context.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R4
Notes	This element is part of a choice

entry [entry-id] *number*

Context	**configure filter ipv6-filter** *filter-name*
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Secondary index for this entry
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

accept

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Accept regular routing to forward a packet that matches this entry
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Drop a packet matching this entry
Introduced	16.0.R1
Notes	This element is part of a choice

drop-when

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the drop-when context
Introduced	16.0.R1

extracted-traffic

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when**

Description Drop traffic extracted to CPM

Introduced 16.0.R1

Notes This element is part of a choice

hop-limit

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when**

Description Enter the **hop-limit** context

Introduced 16.0.R1

eq *number*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when hop-limit**

Description Value to compare against 'equal' condition for entry match criteria

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when hop-limit**

Description Value to compare against 'greater than' condition for entry match criteria

Range min to 254

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when hop-limit**

Description Value to compare against 'less than' condition for entry match criteria

Range 1 to max

Introduced 16.0.R1

Notes This element is part of a choice

range

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when hop-limit**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when hop-limit range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when hop-limit range**
Description	Lower bound value
Range	min to 254
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

pattern

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when**
Description	Enter the pattern context
Introduced	16.0.R1

expression *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Expression to be matched.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

mask *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Expression mask.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

offset-type *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Offset type.
Options	layer-3, layer-4, data, dns-qtype
Introduced	16.0.R1
Notes	This element is mandatory

offset-value *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when pattern**
Description	Offset value.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

payload-length

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when**
Description	Enter the **payload-length** context
Introduced	16.0.R1

eq *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when payload-length**
Description	Value to compare against 'equal' condition for entry match criteria
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when payload-length**
Description	Value to compare against 'greater than' condition for entry match criteria
Range	min to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when payload-length**
Description	Value to compare against 'less than' condition for entry match criteria
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when payload-length**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when payload-length range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action drop-when payload-length range**
Description	Lower bound value
Range	min to 65534
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

fc *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Class name to be forwarded for matching packets
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1

forward

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the **forward** context
Introduced	16.0.R1

bonding-connection *bonding-connection-index*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Connection ID over which packet is forwarded in a bonding context, if connection is available
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a choice

esi-l2

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **esi-l2** context
Introduced	16.0.R1

esi-value *ethernet-segment-id*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward esi-l2**
Description	ID of first ESI identified appliance in Nuage service chain
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward esi-l2**
Description	Specifies the identifier of the VPLS used for VPN/DC connectivity.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R3
Notes	This element is mandatory This element is part of a choice

esi-l3

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **esi-l3** context
Introduced	16.0.R1

esi-value *ethernet-segment-id*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	Specifies the ethernet segment identifier (ESI) of the first ESI identified appliance in Nuage service chain.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sf-ip *ipv6-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	Specifies the IP address of the service function toward which traffic is steered.
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

vas-interface *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	VRI index of VPRN RVPLS interface for VPN DC connectivity
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

vprn *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward esi-l3**
Description	Specifies the routing context used for route lookup.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

gre-tunnel *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	GRE tunnel template ID that sets the location where an encapsulated matching packet is transported
Reference	configure **filter gre-tunnel-template** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

lsp *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	LSP that is specified to forward a packet matching this entry
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

next-hop

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **next-hop** context
Introduced	16.0.R1

nh-ip

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop**
Description	Enter the **nh-ip** context
Introduced	16.0.R1

address *ipv6-address*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip**
Description	IPv6 address of next hop for packet if it matches filter entry
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

indirect *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip**
Description	Allow next hop to be indirectly reachable
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

nh-ip-vrf

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop**
Description	Enter the **nh-ip-vrf** context
Introduced	16.0.R1

address *ipv6-address*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip-vrf**
Description	IPv6 address of next hop for packet if it matches filter entry
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

indirect *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip-vrf**
Description	Allow next hop to be indirectly reachable
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward next-hop nh-ip-vrf**
Description	Specifies the routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

redirect-policy *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Next hop or forward next hop router that forwards a packet that matches this entry
Reference	configure **filter redirect-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Specifies the routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is part of a choice

sap

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **sap** context
Introduced	16.0.R1

sap-id *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward sap**
Description	A packet matching the entry will be forwarded using the specified SAP.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward sap**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sdp

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **sdp** context
Introduced	16.0.R1

sdp-bind-id *sdp-bind-id*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward sdp**
Description	A packet matching the entry will be forwarded using the specified SDP.
String Length	3 to 16
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward sdp**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vprn-target

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **vprn-target** context
Introduced	16.0.R1

adv-prefix *ipv6-prefix*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	Advertised IP prefix for target destination
Introduced	16.0.R1
Notes	This element is part of a choice

bgp-nh *ipv4-address*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	Target BGP next hop IP address
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

lsp *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	LSP that is specified to forward a packet matching this entry
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

vprn *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action forward vprn-target**
Description	Specifies the routing context used for route lookup.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

http-redirect

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the **http-redirect** context
Introduced	16.0.R1

allow-override *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action http-redirect**
Description	Override http-redirect by a RADIUS VSA
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

url *http-redirect-url*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action http-redirect**
Description	URL that is used for redirecting
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

ignore-match

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Ignore match criteria for the entry
Introduced	16.0.R1
Notes	This element is part of a choice

nat

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the **nat** context
Introduced	16.0.R1

nat-policy *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action nat**
Description	NAT policy name when action is NAT
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1
Notes	This element is part of a choice

nat-type *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action nat**
Description	NAT type to assign when action is NAT
Options	dslite, nat64
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

rate-limit

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the rate-limit context
Introduced	16.0.R1

hop-limit

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit**

Description Enter the **hop-limit** context

Introduced 16.0.R1

eq *number*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit hop-limit**

Description Value to compare against 'equal' condition for entry match criteria

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit hop-limit**

Description Value to compare against 'greater than' condition for entry match criteria

Range min to 254

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit hop-limit**

Description Value to compare against 'less than' condition for entry match criteria

Range 1 to max

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit hop-limit**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit hop-limit range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit hop-limit range**
Description	Lower bound value
Range	min to 254
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

pattern

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Enter the pattern context
Introduced	16.0.R1

expression *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Expression to be matched.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

mask *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Expression mask.
String Length	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

offset-type *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Offset type.
Options	layer-3, layer-4, data, dns-qtype
Introduced	16.0.R1
Notes	This element is mandatory

offset-value *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit pattern**
Description	Offset value.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

payload-length

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Enter the **payload-length** context
Introduced	16.0.R1

eq *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit payload-length**
Description	Value to compare against 'equal' condition for entry match criteria
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit payload-length**
Description	Value to compare against 'greater than' condition for entry match criteria
Range	min to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit payload-length**
Description	Value to compare against 'less than' condition for entry match criteria
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit payload-length**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit payload-length range**
Description	Upper bound value
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit payload-length range**
Description	Lower bound value
Range	min to 65534
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

pir (*number* | *keyword*)

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action rate-limit**
Description	Peak information rate
Introduced	16.0.R1
Notes	This element is mandatory

remark

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the remark context
Introduced	16.0.R1

dscp *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action remark**
Description	Destination SAP
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is mandatory

secondary

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Enter the secondary context
Introduced	16.0.R1

forward

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary**
Description	Enter the **forward** context
Introduced	16.0.R1

next-hop

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward**
Description	Enter the **next-hop** context
Introduced	16.0.R1

nh-ip-vrf

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward next-hop**
Description	Enter the **nh-ip-vrf** context
Introduced	16.0.R1

address *ipv6-address*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward next-hop nh-ip-vrf**
Description	IPv6 address of next hop for packet if it matches filter entry
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

indirect *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward next-hop nh-ip-vrf**
Description	Allow next hop to be indirectly reachable
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward next-hop nh-ip-vrf**
Description	Specifies the routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sap

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward**
Description	Enter the **sap** context
Introduced	16.0.R1

sap-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward sap**
Description	A packet matching the entry will be forwarded using the specified SAP.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward sap**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

sdp

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward**

Description Enter the **sdp** context

Introduced 16.0.R1

sdp-bind-id *sdp-bind-id*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward sdp**

Description A packet matching the entry will be forwarded using the specified SDP.

String Length 3 to 16

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

vpls *string*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary forward sdp**

Description VPLS the sdp-bind-id belongs to.

Reference configure **service vpls** *service-name*

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

remark

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary**

Description Enter the remark context

Introduced 16.0.R1

dscp *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action secondary remark**
Description	Destination SAP
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is mandatory

tcp-mss-adjust

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **action**
Description	Adjust MSS option of TCP matching packets to configured value of tcp-mss in router interface context
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-pbr *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	PBR that has an effect when this filter is applied on egress
Options	true, true-with-l4lb
Introduced	16.0.R1

filter-sample *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Sample matching traffic if IP interface is set to cflowd ACL mode
Default	false
Introduced	16.0.R1

interface-sample *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Sample matching traffic if IP interface is set to cflowd interface mode
Default	true
Introduced	16.0.R1

log *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Log that is used for packets matching this entry
Reference	configure **filter log** *number*
Introduced	16.0.R1

match

Context	**configure filter ipv6-filter** *filter-name* **entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Specifies the DSCP to be matched on the packet.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R5

dst-ip

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-ip**
Description	IP address to match
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-prefix-list *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-ip**
Description	IP prefix list as match criterion for IP address
Reference	configure **filter match-list ipv6-prefix-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

mask *ipv6-address*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-ip**
Description	Mask as an AND to IPv6 address
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the **dst-port** context
Introduced	16.0.R5

eq *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port**
Description	Equal to specified value
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port**
Description	Greater than specified value
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port**
Description	Less than specified value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port**
Description	Parameter port-list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

extension-header

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the extension-header context
Introduced	16.0.R1

ah *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match extension-header**
Description	Match a packet as per the existence of an AH Extension Header
Introduced	16.0.R1

esp *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match extension-header**
Description	Match a packet as per the existence of an Encapsulation security payload extension header
Introduced	16.0.R1

hop-by-hop *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match extension-header**
Description	If Enabled, matches a Hop-By-Hop options Extension Header as per value of the object.
Introduced	16.0.R1

routing-type0 *boolean*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match extension-header**
Description	Match a packet as per the existence of a routing Extension Header
Introduced	16.0.R1

flow-label

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the flow-label context
Introduced	16.0.R1

mask *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match flow-label**
Description	Flow label mask for this policy IP filter entry
Range	1 to 1048575
Default	1048575
Introduced	16.0.R1

value *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match flow-label**
Description	Flow label as match criterion
Range	0 to 1048575
Introduced	16.0.R1
Notes	This element is mandatory

fragment *keyword*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	If not default, matches fragmented/unfragmented packets as per value of the object.
Options	false, true, first-only, non-first-only
Introduced	16.0.R5

icmp

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the icmp context
Introduced	16.0.R1

code *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match icmp**
Description	ICMP code value to match. ICMP code and ICMP type must both be set to enable ICMP matching.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

type *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match icmp**
Description	ICMP type value to match. ICMP code and ICMP type must both be set to enable ICMP matching.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

next-header (*number* | *keyword*)

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	IPv6 next header to match. Because the match criteria only pertains to the last next-header, the following values are not accepted: 0, 43, 44, 50, 51, and 60.
Introduced	16.0.R5

port

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the **port** context
Introduced	16.0.R5

eq *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port**
Description	Equal to specified value
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port**
Description	Greater than specified value
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port**
Description	Less than specified value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port**
Description	Parameter port-list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port range**
Description	Lower bound port to match
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match port range**
Description	Lower bound port to match
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

src-ip

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the src-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-ip**
Description	IP address to match
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-prefix-list *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-ip**
Description	IP prefix list as match criterion for IP address
Reference	configure **filter match-list ipv6-prefix-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

mask *ipv6-address*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-ip**
Description	Mask as an AND to IPv6 address
Introduced	16.0.R1
Notes	This element is part of a choice

src-port

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match**
Description	Enter the **src-port** context
Introduced	16.0.R5

eq *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port**
Description	Equal to specified value
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port**
Description	Greater than specified value
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port**
Description	Less than specified value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port**
Description	Parameter port-list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port range**
Description	Lower bound port to match
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter ipv6-filter** *filter-name* **entry** *number* **match src-port range**
Description	Lower bound port to match
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

tcp-flags

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match**

Description Enter the tcp-flags context

Introduced 16.0.R1

ack *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP ACK as per value of the ACK TCP flag bit

Introduced 16.0.R1

cwr *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP CWR as per value of the CWR TCP flag bit

Introduced 16.0.R1

ece *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP ECE as per value of the ECE TCP flag bit

Introduced 16.0.R1

fin *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP FIN as per value of the FIN TCP flag bit

Introduced 16.0.R1

ns *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP NS as per value of the NS TCP flag bit

Introduced 16.0.R1

psh *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP PSH as per value of the PSH TCP flag bit

Introduced 16.0.R1

rst *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP RST as per value of the RST TCP flag bit

Introduced 16.0.R1

syn *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP SYN as per value of the SYN TCP flag bit

Introduced 16.0.R1

urg *boolean*

Context **configure filter ipv6-filter** *filter-name* **entry** *number* **match tcp-flags**

Description Match TCP URG as per value of the URG TCP flag bit

Introduced 16.0.R1

pbr-down-action-override *keyword*

Context **configure filter ipv6-filter** *filter-name* **entry** *number*

Description Action when PBR or PBF target for this entry is not available

Options drop, forward, filter-default-action

Introduced 16.0.R1

sticky-dest (*number* | *keyword*)

Context **configure filter ipv6-filter** *filter-name* **entry** *number*

Description Time before action with available PBR or PBF destination and highest priority

Units seconds

Introduced 16.0.R1

filter-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name*
Description	IPv6 filter identifier
Range	1 to 65535
Introduced	16.0.R1

scope *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter ipv6-filter** *filter-name*
Description	Scope of this filter definition
Default	template
Options	exclusive, template, embedded, system
Introduced	16.0.R1

subscriber-mgmt

Context	**configure filter ipv6-filter** *filter-name*
Description	Enter the subscriber-mgmt context
Introduced	16.0.R1

host-specific-entry

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt**
Description	Enter the host-specific-entry context
Introduced	16.0.R1

credit-control

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry**
Description	Enter the credit-control context
Introduced	16.0.R1

range

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry credit-control**

Description Enter the range context

Introduced 16.0.R1

end *number*

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry credit-control range**

Description Upper bound of range for entries from Credit Control

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

start *number*

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry credit-control range**

Description Lower bound of range for entries from Credit Control

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

filter-rule

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry**

Description Enter the filter-rule context

Introduced 16.0.R1

range

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry filter-rule**

Description Enter the range context

Introduced 16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry filter-rule range**
Description	Upper bound of range for filter-rule entries from RADIUS/Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry filter-rule range**
Description	Lower bound of range for subscriber host filter-rule entries from RADIUS/Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

watermark

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry**
Description	Enter the watermark context
Introduced	16.0.R1

high *number*

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry watermark**
Description	High watermark for host-specific entries, to raise a table full alarm
Range	0 to 100
Default	95
Introduced	16.0.R1

low *number*

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt host-specific-entry watermark**

Description Low watermark for host-specific entries, to clear a table full alarm

Range 0 to 100

Default 90

Introduced 16.0.R1

shared-entry

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt**

Description Enter the shared-entry context

Introduced 16.0.R1

filter-rule

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry**

Description Enter the filter-rule context

Introduced 16.0.R1

range

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry filter-rule**

Description Enter the range context

Introduced 16.0.R1

end *number*

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry filter-rule range**

Description Upper bound of range for shared-filter rules from RADIUS

Range 1 to 2097151

Introduced 16.0.R1

Notes This element is mandatory

start *number*

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry filter-rule range**
Description	Lower bound of range for shared filter-rules from RADIUS
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

pcc-rule

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry**
Description	Enter the pcc-rule context
Introduced	16.0.R1

range

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry pcc-rule**
Description	Enter the range context
Introduced	16.0.R1

end *number*

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry pcc-rule range**
Description	Upper bound of range for pcc-rule filter entries from Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry pcc-rule range**
Description	Lower bound of range for pcc-rule filter entries from Diameter
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is mandatory

watermark

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry**

Description Enter the watermark context

Introduced 16.0.R1

high *number*

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry watermark**

Description Limit of RADIUS shared filters before generating high watermark notification

Range 1 to 8000

Introduced 16.0.R1

Notes This element is mandatory

low *number*

Context **configure filter ipv6-filter** *filter-name* **subscriber-mgmt shared-entry watermark**

Description Limit of RADIUS or Diameter shared filters before clearing high watermark notification

Range 0 to 7999

Introduced 16.0.R1

Notes This element is mandatory

log [log-id] *number*

Context **configure filter**

Description Enter the log context

Introduced 16.0.R1

[log-id] *number*

Context **configure filter log** *number*

Description Filter log identifier

Range 101 to 199

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure filter log** *number*
Description	Administrative state of filter logging
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure filter log** *number*
Description	Text description
String Length	0 to 80
Introduced	16.0.R1

destination

Context	**configure filter log** *number*
Description	Enter the destination context
Introduced	16.0.R1

memory

Context	**configure filter log** *number* **destination**
Description	Enter the **memory** context
Introduced	16.0.R1

max-entries *number*

Context	**configure filter log** *number* **destination memory**
Description	Maximum number of memory entries that the log can store
Range	1 to 50000
Default	1000
Introduced	16.0.R1
Notes	This element is part of a choice

stop-on-full *boolean*

Context	**configure filter log** *number* **destination memory**
Description	Stop logging when maximum number of memory entries is reached or wrap-around is used
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

syslog

Context	**configure filter log** *number* **destination**
Description	Enter the **syslog** context
Introduced	16.0.R1

summary

Context	**configure filter log** *number* **destination syslog**
Description	Enter the **summary** context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure filter log** *number* **destination syslog summary**
Description	Administrative state of the summarization of filter log entries
Default	disable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

summary-crit *keyword*

Context	**configure filter log** *number* **destination syslog summary**
Description	Summary for filter log entries
Default	src-addr
Options	src-addr, dst-addr
Introduced	16.0.R1
Notes	This element is part of a choice

syslog-id *string*

Context	**configure filter log** *number* **destination syslog**
Description	ID of the Syslog server definition for filter logs
Reference	configure **log syslog** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

mac-filter [filter-name] *filter-name*

Context	**configure filter**
Description	Enter the mac-filter context
Introduced	16.0.R1

[filter-name] *filter-name*

Context	**configure filter mac-filter** *filter-name*
Description	Name of the object to associate
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

default-action *keyword*

Context	**configure filter mac-filter** *filter-name*
Description	Action for packets that do not match any entry
Default	drop
Options	drop, accept
Introduced	16.0.R1

description *string*

Context	**configure filter mac-filter** *filter-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

embed

Context	**configure filter mac-filter** *filter-name*
Description	Enter the embed context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure filter mac-filter** *filter-name*
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Secondary index for this entry
Range	1 to 2097151
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

accept

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action**
Description	Accept regular routing to forward a packet that matches this entry
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action**
Description	Drop a packet matching this entry
Introduced	16.0.R1
Notes	This element is part of a choice

forward

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action**
Description	Enter the **forward** context
Introduced	16.0.R1

esi-l2

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **esi-l2** context
Introduced	16.0.R1

esi-value *ethernet-segment-id*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward esi-l2**
Description	ID of first ESI identified appliance in Nuage service chain
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward esi-l2**
Description	Specifies the identifier of the VPLS used for VPN/DC connectivity.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R3
Notes	This element is mandatory This element is part of a choice

sap

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **sap** context
Introduced	16.0.R1

sap-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward sap**
Description	A packet matching the entry will be forwarded using the specified SAP.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward sap**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sdp

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward**
Description	Enter the **sdp** context
Introduced	16.0.R1

sdp-bind-id *sdp-bind-id*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward sdp**
Description	A packet matching the entry will be forwarded using the specified SDP.
String Length	3 to 16
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action forward sdp**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

http-redirect

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action**
Description	Enter the **http-redirect** context
Introduced	16.0.R1

url *http-redirect-url*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action http-redirect**
Description	URL that is used for redirecting
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

ignore-match

Context **configure filter mac-filter** *filter-name* **entry** *number* **action**

Description Ignore match criteria for the entry

Introduced 16.0.R1

Notes This element is part of a choice

rate-limit

Context **configure filter mac-filter** *filter-name* **entry** *number* **action**

Description Enter the rate-limit context

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure filter mac-filter** *filter-name* **entry** *number* **action rate-limit**

Description Peak information rate

Introduced 16.0.R1

Notes This element is mandatory

secondary

Context **configure filter mac-filter** *filter-name* **entry** *number* **action**

Description Enter the secondary context

Introduced 16.0.R1

forward

Context **configure filter mac-filter** *filter-name* **entry** *number* **action secondary**

Description Enter the **forward** context

Introduced 16.0.R1

sap

Context **configure filter mac-filter** *filter-name* **entry** *number* **action secondary forward**

Description Enter the **sap** context

Introduced 16.0.R1

sap-id *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action secondary forward sap**
Description	A packet matching the entry will be forwarded using the specified SAP.
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action secondary forward sap**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sdp

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action secondary forward**
Description	Enter the **sdp** context
Introduced	16.0.R1

sdp-bind-id *sdp-bind-id*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action secondary forward sdp**
Description	A packet matching the entry will be forwarded using the specified SDP.
String Length	3 to 16
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

vpls *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **action secondary forward sdp**
Description	VPLS the sdp-bind-id belongs to.
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

description *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

log *string*

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Log that is used for packets matching this entry
Reference	configure **filter log** *number*
Introduced	16.0.R1

match

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dot1p

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the dot1p context
Introduced	16.0.R1

mask *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match dot1p**
Description	Value of 802.1P mask to use as a MAC filter match criterion
Range	1 to 7
Default	7
Introduced	16.0.R1

priority *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match dot1p**
Description	Value of 802.1P priority to use as a MAC filter match criterion
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

dst-mac

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the dst-mac context
Introduced	16.0.R1

address *mac-address*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match dst-mac**
Description	MAC address
Introduced	16.0.R1
Notes	This element is mandatory

mask *mac-address*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match dst-mac**
Description	MAC address mask
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

etype *etype-value*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Ethernet type
String Length	5 to 6
Introduced	16.0.R1

frame-type *keyword*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	MAC frame as match criteria
Options	802dot3, 802dot2-llc, 802dot2-snap, ethernet-ii
Introduced	16.0.R1

inner-tag

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the inner-tag context
Introduced	16.0.R1

mask *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match inner-tag**
Description	Mask to VID of the inner VLAN tag before comparing it with the inner-tag or outer-tag value
Range	1 to 4095
Default	4095
Introduced	16.0.R1

tag *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match inner-tag**
Description	Matching value against VID of the second or first VLAN tag in the packet carried transparently
Range	0 to 4095
Introduced	16.0.R1
Notes	This element is mandatory

isid

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the isid context
Introduced	16.0.R1

range

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match isid**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match isid range**
Description	Highest value of 24-bit service instance identifier for the service matching this entry
Range	0 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match isid range**
Description	Lowest value of 24-bit service instance identifier for the service matching this entry
Range	0 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

value *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match isid**
Description	Lowest value of 24-bit service instance identifier for the service matching this entry
Range	0 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

llc-dsap

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the llc-dsap context
Introduced	16.0.R1

dsap *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match llc-dsap**
Description	DSAP value
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

mask *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match llc-dsap**
Description	Destination SAP mask
Range	1 to 255
Default	255
Introduced	16.0.R1

llc-ssap

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the llc-ssap context
Introduced	16.0.R1

mask *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match llc-ssap**
Description	Source SAP mask
Range	1 to 255
Default	255
Introduced	16.0.R1

ssap *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match llc-ssap**
Description	Source or destination SAP value
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

outer-tag

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the outer-tag context
Introduced	16.0.R1

mask *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match outer-tag**
Description	Mask to VID of the inner VLAN tag before comparing it with the inner-tag or outer-tag value
Range	1 to 4095
Default	4095
Introduced	16.0.R1

tag *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match outer-tag**
Description	Matching value against VID of the second or first VLAN tag in the packet carried transparently
Range	0 to 4095
Introduced	16.0.R1
Notes	This element is mandatory

snap-oui *keyword*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Parameter snap-oui as a MAC filter match criteria
Options	zero, non-zero
Introduced	16.0.R1

snap-pid *number*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Parameter snap-pid as a MAC filter match criteria
Range	0 to 65535
Introduced	16.0.R1

src-mac

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match**
Description	Enter the src-mac context
Introduced	16.0.R1

address *mac-address*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match src-mac**
Description	MAC address
Introduced	16.0.R1
Notes	This element is mandatory

mask *mac-address*

Context	**configure filter mac-filter** *filter-name* **entry** *number* **match src-mac**
Description	MAC address mask
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

pbr-down-action-override *keyword*

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Action when PBR or PBF target for this entry is not available
Options	drop, forward, filter-default-action
Introduced	16.0.R1

sticky-dest (*number* | *keyword*)

Context	**configure filter mac-filter** *filter-name* **entry** *number*
Description	Time before action with available PBR or PBF destination and highest priority
Units	seconds
Introduced	16.0.R1

filter-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter mac-filter** *filter-name*
Description	MAC filter ID
Range	1 to 65535
Introduced	16.0.R1

scope *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter mac-filter** *filter-name*
Description	Scope of this filter definition
Default	template
Options	exclusive, template, embedded, system
Introduced	16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter mac-filter** *filter-name*
Description	MAC filter policy
Default	normal
Options	normal, isid, vid
Introduced	16.0.R1

match-list

Context	**configure filter**
Description	Enter the match-list context
Introduced	16.0.R1

ip-prefix-list [prefix-list-name] *string*

Context	**configure filter match-list**
Description	Enter the ip-prefix-list context
Introduced	16.0.R1

[prefix-list-name] *string*

Context	**configure filter match-list ip-prefix-list** *string*
Description	Prefix list name that is used for this prefix list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

apply-path

Context	**configure filter match-list ip-prefix-list** *string*
Description	Enter the apply-path context
Introduced	16.0.R1

bgp-peers [criterion-index] *number*

Context	**configure filter match-list ip-prefix-list** *string* **apply-path**
Description	Enter the bgp-peers context
Introduced	16.0.R1

[criterion-index] *number*

Context	**configure filter match-list ip-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Value of the enumerating BGP peers autogeneration configuration within list
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

group *regular-expression-not-all-spaces*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter match-list ip-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Regular expression to match against the base router BGP instance group configuration
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

neighbor *regular-expression-not-all-spaces*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter match-list ip-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Regular expression to match against the base router BGP instance neighbor configuration
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

router-instance *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter match-list ip-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Target routing instance
Default	Base
Introduced	16.0.R1

description *string*

Context	**configure filter match-list ip-prefix-list** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

prefix [ip-prefix] *ipv4-prefix*

Context	**configure filter match-list ip-prefix-list** *string*
Description	Enter the prefix context
Max. Elements	8192
Introduced	16.0.R1

[ip-prefix] *ipv4-prefix*

Context	**configure filter match-list ip-prefix-list** *string* **prefix** *ipv4-prefix*
Description	Add IP prefix to the list.
Introduced	16.0.R3
Notes	This element is part of a list key

prefix-exclude [ip-prefix] *ipv4-prefix*

Context	**configure filter match-list ip-prefix-list** *string*
Description	Enter the prefix-exclude context
Max. Elements	512
Introduced	16.0.R1

[ip-prefix] *ipv4-prefix*

Context	**configure filter match-list ip-prefix-list** *string* **prefix-exclude** *ipv4-prefix*
Description	Add IP prefix to the list.
Introduced	16.0.R3
Notes	This element is part of a list key

ipv6-prefix-list [prefix-list-name] *string*

Context	**configure filter match-list**
Description	Enter the ipv6-prefix-list context
Introduced	16.0.R1

[prefix-list-name] *string*

Context	**configure filter match-list ipv6-prefix-list** *string*
Description	Prefix list name that is used for this prefix list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

apply-path

Context	**configure filter match-list ipv6-prefix-list** *string*
Description	Enter the apply-path context
Introduced	16.0.R1

bgp-peers [criterion-index] *number*

Context	**configure filter match-list ipv6-prefix-list** *string* **apply-path**
Description	Enter the bgp-peers context
Introduced	16.0.R1

[criterion-index] *number*

Context	**configure filter match-list ipv6-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Value of the enumerating BGP peers autogeneration configuration within list
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

group *regular-expression-not-all-spaces*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter match-list ipv6-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Regular expression to match against the base router BGP instance group configuration
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

neighbor *regular-expression-not-all-spaces*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter match-list ipv6-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Regular expression to match against the base router BGP instance neighbor configuration
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

router-instance *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter match-list ipv6-prefix-list** *string* **apply-path bgp-peers** *number*
Description	Target routing instance
Default	Base
Introduced	16.0.R1

description *string*

Context	**configure filter match-list ipv6-prefix-list** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure filter match-list ipv6-prefix-list** *string*
Description	Enter the prefix context
Max. Elements	8192
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure filter match-list ipv6-prefix-list** *string* **prefix** *ipv6-prefix*
Description	Add IPv6 prefix to the list.
Introduced	16.0.R3
Notes	This element is part of a list key

prefix-exclude [ipv6-prefix] *ipv6-prefix*

Context	**configure filter match-list ipv6-prefix-list** *string*
Description	Enter the prefix-exclude context
Max. Elements	512
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure filter match-list ipv6-prefix-list** *string* **prefix-exclude** *ipv6-prefix*
Description	Add IPv6 prefix to the list.
Introduced	16.0.R3
Notes	This element is part of a list key

port-list [port-list-name] *string*

Context	**configure filter match-list**
Description	Enter the port-list context
Max. Elements	1024
Introduced	16.0.R1

[port-list-name] *string*

Context	**configure filter match-list port-list** *string*
Description	Port list name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure filter match-list port-list** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

port [value] *number*

Context	**configure filter match-list port-list** *string*
Description	Enter the port context
Introduced	16.0.R1

[value] *number*

Context	**configure filter match-list port-list** *string* **port** *number*
Description	Port value
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

range start *number* **end** *number*

Context	**configure filter match-list port-list** *string*
Description	Enter the range context
Introduced	16.0.R1

start *number*

Context	**configure filter match-list port-list** *string* **range start** *number* **end** *number*
Description	Highest value for TCP/UDP port range
Range	0 to 65534
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure filter match-list port-list** *string* **range start** *number* **end** *number*
Description	Highest value for TCP/UDP port range
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

md-auto-id

Context	**configure filter**
Description	Enter the md-auto-id context
Introduced	16.0.R1

filter-id-range

Context	**configure filter md-auto-id**
Description	Enter the filter-id-range context
Introduced	16.0.R1

end *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter md-auto-id filter-id-range**
Description	Upper value of the ID range, must be greater than or equal to start value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

start *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure filter md-auto-id filter-id-range**
Description	Lower value of the ID range, must be less than or equal to end value
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

redirect-policy [redirect-policy-name] *string*

Context	**configure filter**
Description	Enter the redirect-policy context
Introduced	16.0.R1

[redirect-policy-name] *string*

Context	**configure filter redirect-policy** *string*
Description	Redirect policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter redirect-policy** *string*
Description	Administrative state of the policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure filter redirect-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination [destination-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure filter redirect-policy** *string*
Description	Enter the destination context
Introduced	16.0.R1

[destination-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address and type of destination
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Administrative state of the destination
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ping-test

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the ping-test context
Introduced	16.0.R1

drop-count *number*

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **ping-test**
Description	Number of consecutive requests that fail before destination is declared unreachable
Range	1 to 60
Default	3
Introduced	16.0.R1

hold-down *number*

Context **configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **ping-test**

Description Time for the system to be held down if this test has marked it unreachable

Range 0 to 86400

Default 0

Units seconds

Introduced 16.0.R1

interval *number*

Context **configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **ping-test**

Description Time between consecutive requests which are sent to the far end host

Range 1 to 60

Default 1

Units seconds

Introduced 16.0.R1

source-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **ping-test**

Description The value indicates the source IP address to use in the ping test. The value should be a router local address to make sure the reply reaches the CPM.

Introduced 16.0.R1

timeout *number*

Context **configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **ping-test**

Description Time required to receive a response from the far end host

Range 1 to 60

Default 1

Units seconds

Introduced 16.0.R1

priority *number*

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Priority for this destination
Range	1 to 255
Default	100
Introduced	16.0.R1

unicast-rt-test

Context	**configure filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the unicast-rt-test context
Introduced	16.0.R1

notify-dest-change *boolean*

Context	**configure filter redirect-policy** *string*
Description	The value of the object indicates whether to send tFilterRPActiveDestChangeEvent notification for this redirect policy active destination changes.
Default	false
Introduced	16.0.R1

router-instance *string*

Context	**configure filter redirect-policy** *string*
Description	Routing context to use for route lookup
Introduced	16.0.R1

sticky-dest (*number* | *keyword*)

Context	**configure filter redirect-policy** *string*
Description	Time required by system before applying the current best destination as active destination
Units	seconds
Introduced	16.0.R1

redirect-policy-binding [binding-name] *string*

Context	**configure filter**
Description	Enter the redirect-policy-binding context
Max. Elements	16
Introduced	16.0.R1

[binding-name] *string*

Context	**configure filter redirect-policy-binding** *string*
Description	The redirect-policy-binding identifier.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

binding-operator *keyword*

Context	**configure filter redirect-policy-binding** *string*
Description	The value of the this object indicates the logical operator to use when combining result of different destinations' tests.
Default	and
Options	and, or
Introduced	16.0.R1

redirect-policy [redirect-policy-name] *string*

Context	**configure filter redirect-policy-binding** *string*
Description	Enter the redirect-policy context
Introduced	16.0.R1

[redirect-policy-name] *string*

Context	**configure filter redirect-policy-binding** *string* **redirect-policy** *string*
Description	The redirect-policy identifier.
Reference	configure **filter redirect-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

destination [destination-address] *string*

Context	**configure filter redirect-policy-binding** *string* **redirect-policy** *string*
Description	Enter the destination context
Min. Elements	1
Introduced	16.0.R1

[destination-address] *string*

Context	**configure filter redirect-policy-binding** *string* **redirect-policy** *string* **destination** *string*
Description	IP address and type of the destination.
Reference	configure **filter redirect-policy** *string* **destination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

system-filter

Context	**configure filter**
Description	Enter the system-filter context
Introduced	16.0.R1

ip [ip-filter] *string*

Context	**configure filter system-filter**
Description	Enter the ip context
Max. Elements	1
Introduced	16.0.R1

[ip-filter] *string*

Context	**configure filter system-filter ip** *string*
Description	The name of the IPv4 filter policy to be selected as the active system filter policy
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R3
Notes	This element is part of a list key

ipv6 [ipv6-filter] *string*

Context	**configure filter system-filter**
Description	Enter the ipv6 context
Max. Elements	1
Introduced	16.0.R1

[ipv6-filter] *string*

Context	**configure filter system-filter ipv6** *string*
Description	The name of the IPv6 filter policy to be selected as the active system filter policy
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R3
Notes	This element is part of a list key

13 fwd-path-ext Commands

configure
- **fwd-path-ext**
  - **fpe** *number*
    - **application**
      - **pw-port** *boolean*
      - **sub-mgmt-extension** *boolean*
      - **vxlan-termination**
        - **router-instance** *string*
    - **description** *string*
    - **path**
      - **pxc** *string*
      - **xc-lag-a** *string*
      - **xc-lag-b** *string*
  - **sdp-id-range**
    - **end** *number*
    - **start** *number*

13.1 fwd-path-ext Command Descriptions

fwd-path-ext

Context	**configure**
Description	Enter the fwd-path-ext context
Introduced	16.0.R1

fpe [fpe-id] *number*

Context	**configure fwd-path-ext**
Description	Enter the fpe context
Introduced	16.0.R1

[fpe-id] *number*

Context	**configure fwd-path-ext fpe** *number*
Description	FPE used to associate the application with a PXC
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

application

Context	**configure fwd-path-ext fpe** *number*
Description	Enter the application context
Introduced	16.0.R1

pw-port *boolean*

Context	**configure fwd-path-ext fpe** *number* **application**
Description	Use FPE to set up FPE PW cross-connect
Default	false
Introduced	16.0.R1

sub-mgmt-extension *boolean*

Context	**configure fwd-path-ext fpe** *number* **application**
Description	Reserve FPE for hybrid access bonding
Default	false
Introduced	16.0.R1

vxlan-termination

Context	**configure fwd-path-ext fpe** *number* **application**
Description	Enter the vxlan-termination context
Introduced	16.0.R1

router-instance *string*

Context	**configure fwd-path-ext fpe** *number* **application vxlan-termination**
Description	Routing context that provides reachability to the tunnel configured
Default	Base
Introduced	16.0.R1

description *string*

Context	**configure fwd-path-ext fpe** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

path

Context	**configure fwd-path-ext fpe** *number*
Description	Enter the path context
Introduced	16.0.R1

pxc *string*

Context	**configure fwd-path-ext fpe** *number* **path**
Description	Cross connect port identifier associated with this entry
Reference	configure **port-xc pxc** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

xc-lag-a *string*

Context	**configure fwd-path-ext fpe** *number* **path**
Description	LAG identifier A value
Reference	configure **lag** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

xc-lag-b *string*

Context	**configure fwd-path-ext fpe** *number* **path**
Description	LAG identifier B value
Reference	configure **lag** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

sdp-id-range

Context	**configure fwd-path-ext**
Description	Enter the sdp-id-range context
Introduced	16.0.R1

end *number*

Context	**configure fwd-path-ext sdp-id-range**
Description	End of range
Range	1 to 32767
Introduced	16.0.R1

start *number*

Context	**configure fwd-path-ext sdp-id-range**
Description	Start of range
Range	1 to 32767
Introduced	16.0.R1

14 ipsec Commands

configure
- — **ipsec**
  - — **ike-policy** *number*
    - — **description** *string*
    - — **dpd**
      - — **interval** *number*
      - — **max-retries** *number*
      - — **reply-only** *boolean*
    - — **ike-transform** *string*
    - — **ike-version-1**
      - — **auth-method** *keyword*
      - — **ike-mode** *keyword*
      - — **own-auth-method** *keyword*
      - — **ph1-responder-delete-notify** *boolean*
    - — **ike-version-2**
      - — **auth-method** *keyword*
      - — **auto-eap-method** *keyword*
      - — **ikev2-fragment**
        - — **mtu** *number*
        - — **reassembly-timeout** *number*
      - — **own-auth-method** *keyword*
      - — **own-auto-eap-method** *keyword*
      - — **send-idr-after-eap-success** *boolean*
    - — **ipsec-lifetime** *number*
    - — **limit-init-exchange**
      - — **admin-state** *keyword*
      - — **reduced-max-exchange-timeout** (*number* | *keyword*)
    - — **lockout**
      - — **block** (*number* | *keyword*)
      - — **duration** *number*
      - — **failed-attempts** *number*
      - — **max-port-per-ip** *number*
    - — **match-peer-id-to-cert** *boolean*
    - — **nat-traversal**
      - — **force** *boolean*
      - — **force-keep-alive** *boolean*
      - — **keep-alive-interval** *number*
    - — **pfs**
      - — **dh-group** *keyword*
    - — **relay-unsolicited-cfg-attribute**
      - — **internal-ip4-address** *boolean*
      - — **internal-ip4-dns** *boolean*
      - — **internal-ip4-netmask** *boolean*
      - — **internal-ip6-address** *boolean*
      - — **internal-ip6-dns** *boolean*
  - — **ike-transform** *number*
    - — **dh-group** *keyword*
    - — **ike-auth-algorithm** *keyword*
    - — **ike-encryption-algorithm** *keyword*
    - — **isakmp-lifetime** *number*

- **ipsec-transform** *number*
  - **esp-auth-algorithm** *keyword*
  - **esp-encryption-algorithm** *keyword*
  - **ipsec-lifetime** *number*
  - **pfs-dh-group** *keyword*
- **show-ipsec-keys** *boolean*
- **tunnel-template** *number*
  - **clear-df-bit** *boolean*
  - **description** *string*
  - **encapsulated-ip-mtu** *number*
  - **icmp6-generation**
    - **pkt-too-big**
      - **admin-state** *keyword*
      - **interval** *number*
      - **message-count** *number*
  - **ip-mtu** *number*
  - **ipsec-transform** *string*
  - **private-tcp-mss-adjust** *number*
  - **public-tcp-mss-adjust** (*number* | *keyword*)
  - **replay-window** *number*
  - **sp-reverse-route** *keyword*

14.1 ipsec Command Descriptions

ipsec

Context	**configure**
Description	Enter the ipsec context
Introduced	16.0.R1

ike-policy [id] *number*

Context	**configure ipsec**
Description	Enter the ike-policy context
Max. Elements	2048
Introduced	16.0.R1

[id] *number*

Context	**configure ipsec ike-policy** *number*
Description	The unique identifier of an IKE policy.
Range	1 to 2048
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure ipsec ike-policy** *number*
Description	The IKE policy description.
String Length	1 to 80
Introduced	16.0.R1

dpd

Context	**configure ipsec ike-policy** *number*
Description	Enter the dpd context
Introduced	16.0.R1

interval *number*

Context	**configure ipsec ike-policy** *number* **dpd**
Description	The DPD interval.
Range	10 to 300
Default	30
Units	seconds
Introduced	16.0.R1

max-retries *number*

Context	**configure ipsec ike-policy** *number* **dpd**
Description	The maximum number of retires before the peer is determined dead.
Range	2 to 5
Default	3
Introduced	16.0.R1

reply-only *boolean*

Context	**configure ipsec ike-policy** *number* **dpd**
Description	Reply to DPD keep alive requests only.
Default	false
Introduced	16.0.R1

ike-transform *string*

Context	**configure ipsec ike-policy** *number*
Description	IKE transform for this IKE policy.
Reference	configure **ipsec ike-transform** *number*
Max. Elements	4
Introduced	16.0.R1

ike-version-1

Context	**configure ipsec ike-policy** *number*
Description	Enter the **ike-version-1** context
Introduced	16.0.R1

auth-method *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-1**
Description	The authentication method used with this IKE policy for the remote peer.
Default	psk
Options	psk, plain-psk-xauth
Introduced	16.0.R1
Notes	This element is part of a choice

ike-mode *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-1**
Description	The mode of operation, which determines the number of messages used to IKE establish the session.
Default	main
Options	main, aggressive
Introduced	16.0.R1
Notes	This element is part of a choice

own-auth-method *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-1**
Description	The authentication method used with this IKE policy for its own side.
Default	symmetric
Options	symmetric
Introduced	16.0.R1
Notes	This element is part of a choice

ph1-responder-delete-notify *boolean*

Context	**configure ipsec ike-policy** *number* **ike-version-1**
Description	Sending a delete message to the peer, as a responder, when an IKEv1 phase 1 is expired or removed
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

ike-version-2

Context	**configure ipsec ike-policy** *number*
Description	Enter the **ike-version-2** context
Introduced	16.0.R1

auth-method *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-2**
Description	The authentication method used with this IKE policy for the remote peer.
Default	psk
Options	psk, cert, psk-radius, cert-radius, eap, auto-eap-radius, auto-eap
Introduced	16.0.R1
Notes	This element is part of a choice

auto-eap-method *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-2**
Description	The auto Extensible Authentication Protocol (EAP) method for remote peer used with this IKE policy. It is only meaningful when the auth-method equals to 'auto-eap-radius'.
Default	cert
Options	psk, cert, psk-or-cert
Introduced	16.0.R1
Notes	This element is part of a choice

ikev2-fragment

Context	**configure ipsec ike-policy** *number* **ike-version-2**
Description	Enter the **ikev2-fragment** context
Introduced	16.0.R1

mtu *number*

Context	**configure ipsec ike-policy** *number* **ike-version-2 ikev2-fragment**
Description	The MTU size of the IKEv2 fragmentation.
Range	512 to 9000
Default	1500
Units	octets
Introduced	16.0.R1
Notes	This element is part of a choice

reassembly-timeout *number*

Context	**configure ipsec ike-policy** *number* **ike-version-2 ikev2-fragment**
Description	The maximum number of seconds to wait to receive all fragments of an IKEv2 message for reassembly.
Range	1 to 5
Default	2
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

own-auth-method *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-2**
Description	The authentication method used with this IKE policy for its own side.
Default	symmetric
Options	symmetric, psk, cert, eap-only
Introduced	16.0.R1
Notes	This element is part of a choice

own-auto-eap-method *keyword*

Context	**configure ipsec ike-policy** *number* **ike-version-2**
Description	The auto Extensible Authentication Protocol (EAP) method used with this IKE policy on its own side.
Default	cert
Options	psk, cert
Introduced	16.0.R1
Notes	This element is part of a choice

send-idr-after-eap-success *boolean*

Context	**configure ipsec ike-policy** *number* **ike-version-2**
Description	Add the IDr payload in the last IKE authentication response after the EAP success.
Default	true
Introduced	16.0.R4
Notes	This element is part of a choice

ipsec-lifetime *number*

Context	**configure ipsec ike-policy** *number*
Description	The Phase 1 lifetime for this IKE transform
Range	1200 to 31536000
Default	3600
Introduced	16.0.R1

limit-init-exchange

Context	**configure ipsec ike-policy** *number*
Description	Enter the limit-init-exchange context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure ipsec ike-policy** *number* **limit-init-exchange**
Description	Limits the number of in-progress initial IKE exchanges to one per IPsec tunnel.
Default	enable
Options	enable, disable
Introduced	16.0.R1

reduced-max-exchange-timeout (*number* | *keyword*)

Context	**configure ipsec ike-policy** *number* **limit-init-exchange**
Description	The maximum timeout for the in-progress initial IKE exchange. The value of 'disabled' means that there is no reduction of the current exchange timeout which is 120 seconds.
Range	2 to 60
Default	2
Units	seconds
Options	none
Introduced	16.0.R1

lockout

Context	**configure ipsec ike-policy** *number*
Description	Enter the lockout context
Introduced	16.0.R1

block (*number* | *keyword*)

Context	**configure ipsec ike-policy** *number* **lockout**
Description	The maximum time period that the system drops IKE packets after the maximum number of consecutive failed authentication attempts reaches failed-attempts within duration minutes.
Range	1 to 1440
Default	10
Units	minutes
Options	infinite
Introduced	16.0.R1

duration *number*

Context	**configure ipsec ike-policy** *number* **lockout**
Description	The maximum duration that the system can afford failed-attempts number of failed authentication attempts from the same remote client.
Range	1 to 60
Default	5
Units	minutes
Introduced	16.0.R1

failed-attempts *number*

Context	**configure ipsec ike-policy** *number* **lockout**
Description	The maximum number of consecutive failed authentication attempts from the same remote client.
Range	1 to 64
Default	3
Introduced	16.0.R1

max-port-per-ip *number*

Context	**configure ipsec ike-policy** *number* **lockout**
Description	The maximum number of port that can be lockout under the same IP address.
Range	1 to 32000
Default	16
Introduced	16.0.R1

match-peer-id-to-cert *boolean*

Context	**configure ipsec ike-policy** *number*
Description	Checking whether the IKE peer's ID matches the peer's certificate when performing certificate authentication.
Default	false
Introduced	16.0.R1

nat-traversal

Context **configure ipsec ike-policy** *number*

Description Enter the nat-traversal context

Introduced 16.0.R1

force *boolean*

Context **configure ipsec ike-policy** *number* **nat-traversal**

Description Force NAT-T to be enabled.

Default false

Introduced 16.0.R1

force-keep-alive *boolean*

Context **configure ipsec ike-policy** *number* **nat-traversal**

Description Send the keep alive packets only when behind a NAT.

Default true

Introduced 16.0.R1

keep-alive-interval *number*

Context **configure ipsec ike-policy** *number* **nat-traversal**

Description The keep alive interval for NAT-T.

Range 120 to 600

Units seconds

Introduced 16.0.R1

pfs

Context **configure ipsec ike-policy** *number*

Description Enter the pfs context

Introduced 16.0.R1

dh-group *keyword*

Context	**configure ipsec ike-policy** *number* **pfs**
Description	The new Diffie-Hellman (DH) group used when each time the SA(Security Association) key is renegotiated.
Default	group-2
Options	group-1, group-2, group-5, group-14, group-15, group-19, group-20, group-21
Introduced	16.0.R1

relay-unsolicited-cfg-attribute

Context	**configure ipsec ike-policy** *number*
Description	Enter the relay-unsolicited-cfg-attribute context
Introduced	16.0.R1

internal-ip4-address *boolean*

Context	**configure ipsec ike-policy** *number* **relay-unsolicited-cfg-attribute**
Description	IPv4 address attribute.
Default	false
Introduced	16.0.R1

internal-ip4-dns *boolean*

Context	**configure ipsec ike-policy** *number* **relay-unsolicited-cfg-attribute**
Description	IPv4 DNS attribute.
Default	false
Introduced	16.0.R1

internal-ip4-netmask *boolean*

Context	**configure ipsec ike-policy** *number* **relay-unsolicited-cfg-attribute**
Description	IPv4 netmask attribute.
Default	false
Introduced	16.0.R1

internal-ip6-address *boolean*

Context	**configure ipsec ike-policy** *number* **relay-unsolicited-cfg-attribute**
Description	IPv6 address attribute.
Default	false
Introduced	16.0.R1

internal-ip6-dns *boolean*

Context	**configure ipsec ike-policy** *number* **relay-unsolicited-cfg-attribute**
Description	IPv6 DNS attribute.
Default	false
Introduced	16.0.R1

ike-transform [id] *number*

Context	**configure ipsec**
Description	Enter the ike-transform context
Max. Elements	4096
Introduced	16.0.R1

[id] *number*

Context	**configure ipsec ike-transform** *number*
Description	The unique identifier of an IKE transform.
Range	1 to 4096
Introduced	16.0.R1
Notes	This element is part of a list key

dh-group *keyword*

Context	**configure ipsec ike-transform** *number*
Description	The Diffie-Hellman (DH) group for this IKE transform.
Default	group-2
Options	group-1, group-2, group-5, group-14, group-15, group-19, group-20, group-21
Introduced	16.0.R1

ike-auth-algorithm *keyword*

Context	**configure ipsec ike-transform** *number*
Description	The authentication algorithm for this IKE transform.
Default	sha-1
Options	md-5, sha-1, sha-256, sha-384, sha-512, aes-xcbc
Introduced	16.0.R1

ike-encryption-algorithm *keyword*

Context	**configure ipsec ike-transform** *number*
Description	The encryption algorithm for this IKE transform.
Default	aes-128
Options	des, des-3, aes-128, aes-192, aes-256, aes128-gcm8, aes128-gcm16, aes256-gcm8, aes256-gcm16
Introduced	16.0.R1

isakmp-lifetime *number*

Context	**configure ipsec ike-transform** *number*
Description	The Phase 1 lifetime for this IKE transform
Range	1200 to 31536000
Default	86400
Introduced	16.0.R1

ipsec-transform [id] *number*

Context	**configure ipsec**
Description	Enter the ipsec-transform context
Max. Elements	2048
Introduced	16.0.R1

[id] *number*

Context	**configure ipsec ipsec-transform** *number*
Description	IPsec transform ID.
Range	1 to 2048
Introduced	16.0.R1
Notes	This element is part of a list key

esp-auth-algorithm *keyword*

Context	**configure ipsec ipsec-transform** *number*
Description	The authentication algorithm for this IPsec transform.
Default	sha-1
Options	null, md-5, sha-1, sha-256, sha-384, sha-512, aes-xcbc, auth-encryption
Introduced	16.0.R1

esp-encryption-algorithm *keyword*

Context	**configure ipsec ipsec-transform** *number*
Description	The encryption algorithm for this IPsec transform.
Default	aes-128
Options	null, des, des-3, aes-128, aes-192, aes-256, aes128-gcm8, aes128-gcm12, aes128-gcm16, aes192-gcm8, aes192-gcm12, aes192-gcm16, aes256-gcm8, aes256-gcm12, aes256-gcm16, null-aes128-gmac, null-aes192-gmac, null-aes256-gmac
Introduced	16.0.R1

ipsec-lifetime *number*

Context	**configure ipsec ipsec-transform** *number*
Description	The Phase 2 lifetime for this IPsec transform.
Range	1200 to 31536000
Introduced	16.0.R1

pfs-dh-group *keyword*

Context	**configure ipsec ipsec-transform** *number*
Description	The Diffie-Hellman (DH) group for this IPsec transform.
Options	none, group-1, group-2, group-5, group-14, group-15, group-19, group-20, group-21
Introduced	16.0.R1

show-ipsec-keys *boolean*

Context	**configure ipsec**
Description	Show IPsec IKE and ESP keys.
Default	false
Introduced	16.0.R1

tunnel-template [id] *number*

Context	**configure ipsec**
Description	Enter the tunnel-template context
Max. Elements	2048
Introduced	16.0.R1

[id] *number*

Context	**configure ipsec tunnel-template** *number*
Description	The unique identifier of a tunnel template.
Range	1 to 2048
Introduced	16.0.R1
Notes	This element is part of a list key

clear-df-bit *boolean*

Context	**configure ipsec tunnel-template** *number*
Description	Whether to clear Do not Fragment (DF) bit in the outgoing IPv4 packets.
Default	false
Introduced	16.0.R1

description *string*

Context	**configure ipsec tunnel-template** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

encapsulated-ip-mtu *number*

Context	**configure ipsec tunnel-template** *number*
Description	The Maximum Transmission Unit (MTU) size for ESP and IKE packets.
Range	512 to 9000
Units	octets
Introduced	16.0.R1

icmp6-generation

Context	**configure ipsec tunnel-template** *number*
Description	Enter the icmp6-generation context
Introduced	16.0.R1

pkt-too-big

Context	**configure ipsec tunnel-template** *number* **icmp6-generation**
Description	Enter the pkt-too-big context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure ipsec tunnel-template** *number* **icmp6-generation pkt-too-big**
Description	Adminstrative state of the generation of ICMPv6 Packet Too Big messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

interval *number*

Context	**configure ipsec tunnel-template** *number* **icmp6-generation pkt-too-big**
Description	The duration of the interval used when limiting the number of ICMPv6 Packet Too Big messages sent.
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

message-count *number*

Context	**configure ipsec tunnel-template** *number* **icmp6-generation pkt-too-big**
Description	The maximum number of ICMPv6 messages that can be sent during the period specified by 'interval'.
Range	10 to 1000
Default	100
Introduced	16.0.R1

ip-mtu *number*

Context	**configure ipsec tunnel-template** *number*
Description	The MTU size for payload packets.
Range	512 to 9000
Units	octets
Introduced	16.0.R1

ipsec-transform *string*

Context	**configure ipsec tunnel-template** *number*
Description	IPsec transform for this tunnel template.
Reference	configure **ipsec ipsec-transform** *number*
Max. Elements	4
Introduced	16.0.R1

private-tcp-mss-adjust *number*

Context	**configure ipsec tunnel-template** *number*
Description	The Maximum Segment Size (MSS) adjust for the TCP traffic in a tunnel which is sent from the private network to the public network.
Range	512 to 9000
Units	octets
Introduced	16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)

Context	**configure ipsec tunnel-template** *number*
Description	The MSS adjust for the TCP traffic in a tunnel which is sent from the public network to the private network.
Range	512 to 9000
Units	octets
Options	auto
Introduced	16.0.R1

replay-window *number*

Context	**configure ipsec tunnel-template** *number*
Description	The size of the anti-replay window for the template.
Range	32 | 64 | 128 | 256 | 512
Introduced	16.0.R1

sp-reverse-route *keyword*

Context	**configure ipsec tunnel-template** *number*
Description	Whether system will use peer signaled traffic selector to create a reverse route in private service.
Default	none
Options	none, use-security-policy
Introduced	16.0.R1

15 isa Commands

configure
- — **isa**
  - — **lns-group** *number*
    - — **admin-state** *keyword*
    - — **description** *string*
    - — **mda** *slot-mda*
      - — **drain** *boolean*
    - — **port-policy** *string*
  - — **nat-group** *number*
    - — **admin-state** *keyword*
    - — **description** *string*
    - — **log**
      - — **suppress-lsn-events** *boolean*
      - — **suppress-lsn-sub-blocks-free** *boolean*
    - — **mda** *slot-mda*
    - — **radius-accounting-policy** *string*
    - — **redundancy**
      - — **active-mda-limit** *number*
      - — **intra-chassis**
        - — **active-active**
          - — **failed-mda-limit** *number*
        - — **active-standby**
        - — **l2aware-bypass**
    - — **scaling-profile** *keyword*
    - — **session-limits**
      - — **reserved** *number*
      - — **upnp-mappings** *number*
      - — **watermarks**
        - — **high** *number*
        - — **low** *number*
  - — **tunnel-group** *number*
    - — **admin-state** *keyword*
    - — **backup** *slot-mda*
    - — **description** *string*
    - — **ipsec-responder-only** *boolean*
    - — **isa-scale-mode** *keyword*
    - — **multi-active**
      - — **active-isa-number** *number*
      - — **isa** *slot-mda*
    - — **primary** *slot-mda*
    - — **reassembly**
      - — **max-wait-time** *number*
    - — **stats-collection**
      - — **isa-dp-cpu-usage** *boolean*
  - — **video-group** *number*
    - — **ad-insert** *boolean*
    - — **admin-state** *keyword*
    - — **analyzer** *boolean*
    - — **description** *string*
    - — **fcc-server** *boolean*

- **local-rt-server** *boolean*
- **mda** *slot-mda*
- **resv-ret** *number*
- **rt-client** *boolean*
- **stream-selection** *boolean*
- **watermark**
  - **bandwidth**
    - **fcc** *number*
    - **ret** *number*
    - **total** *number*
  - **session**
    - **fcc** *number*
    - **ret** *number*
    - **total** *number*

- **wlan-gw-group** *number*
  - **active-iom-limit** *number*
  - **active-mda-limit** *number*
  - **admin-state** *keyword*
  - **description** *string*
  - **iom** *string*
  - **mda** *slot-mda*
  - **nat**
    - **log**
      - **suppress-lsn-events** *boolean*
      - **suppress-lsn-sub-blocks-free** *boolean*
    - **lsn** *boolean*
    - **radius-accounting-policy** *string*
    - **session-limits**
      - **reserved** *number*
      - **upnp-mappings** *number*
      - **watermarks**
        - **high** *number*
        - **low** *number*
  - **port-policy** *string*
  - **redundancy** *keyword*
  - **tunnel-port-policy** *string*
  - **watermarks**
    - **mark** *keyword*
      - **high** *number*
      - **low** *number*

15.1 isa Command Descriptions

isa

Context	**configure**
Description	Enter the isa context
Introduced	16.0.R1

lns-group [id] *number*

Context	**configure isa**
Description	Enter the lns-group context
Introduced	16.0.R1

[id] *number*

Context	**configure isa lns-group** *number*
Description	Tunnel group ID
Range	1 to 4
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure isa lns-group** *number*
Description	Administrative state of the ISA LNS group
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure isa lns-group** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

mda [mda-id] *slot-mda*

Context	**configure isa lns-group** *number*
Description	Enter the mda context
Max. Elements	6
Introduced	16.0.R1

[mda-id] *slot-mda*

Context	**configure isa lns-group** *number* **mda** *slot-mda*
Description	MDA ID for the ISA LNS group
Introduced	16.0.R1
Notes	This element is part of a list key

drain *boolean*

Context	**configure isa lns-group** *number* **mda** *slot-mda*
Description	Specifies the draining state of the MDA
Default	false
Introduced	16.0.R1

port-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa lns-group** *number*
Description	Port policy for the ISA LNS group
Reference	configure **port-policy** *string*
Introduced	16.0.R1

nat-group [id] *number*

Context	**configure isa**
Description	Enter the nat-group context
Max. Elements	4
Introduced	16.0.R1

[id] *number*

Context	**configure isa nat-group** *number*
Description	Nat-group identifier
Range	1 to 4
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure isa nat-group** *number*
Description	Administrative state of the NAT group
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure isa nat-group** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

log

Context	**configure isa nat-group** *number*
Description	Enter the log context
Introduced	16.0.R1

suppress-lsn-events *boolean*

Context	**configure isa nat-group** *number* **log**
Description	Suppress the generation of Large Scale NAT (LSN) events when RADIUS accounting is enabled
Default	true
Introduced	16.0.R1

suppress-lsn-sub-blocks-free *boolean*

Context	**configure isa nat-group** *number* **log**
Description	Suppress the LSN Free blocks and NAT pool block allocation notifications
Default	false
Introduced	16.0.R4

mda [mda-id] *slot-mda*

Context	**configure isa nat-group** *number*
Description	Enter the mda context
Max. Elements	14
Introduced	16.0.R1

[mda-id] *slot-mda*

Context	**configure isa nat-group** *number* **mda** *slot-mda*
Description	MDA ID for ISA NAT group
Introduced	16.0.R1
Notes	This element is part of a list key

radius-accounting-policy *string*

Context	**configure isa nat-group** *number*
Description	RADIUS accounting policy for ISA group
Reference	configure **aaa radius isa-policy** *string*
Introduced	16.0.R1

redundancy

Context	**configure isa nat-group** *number*
Description	Enter the redundancy context
Introduced	16.0.R1

active-mda-limit *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa nat-group** *number* **redundancy**
Description	Number of active MS-ISAs in the NAT group
Range	1 to 14
Introduced	16.0.R1

intra-chassis

Context	**configure isa nat-group** *number* **redundancy**
Description	Enter the **intra-chassis** context
Introduced	16.0.R4

active-active

Context	**configure isa nat-group** *number* **redundancy intra-chassis**
Description	Enter the **active-active** context
Introduced	16.0.R4

failed-mda-limit *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa nat-group** *number* **redundancy intra-chassis active-active**
Description	Maximum allowable number of failed MS-ISAs in the nat-group
Range	1 to 2
Introduced	16.0.R4
Notes	This element is part of a choice

active-standby

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa nat-group** *number* **redundancy intra-chassis**
Description	Active-standby intra-chassis NAT redundancy model
Introduced	16.0.R4
Notes	This element is part of a choice

l2aware-bypass

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa nat-group** *number* **redundancy intra-chassis**
Description	L2-aware-bypass NAT redundancy model
Introduced	16.0.R4
Notes	This element is part of a choice

scaling-profile *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa nat-group** *number*
Description	The ISA scaling profile identifier
Default	profile1
Options	profile1, profile2
Introduced	16.0.R1

session-limits

Context	**configure isa nat-group** *number*
Description	Enter the session-limits context
Introduced	16.0.R1

reserved *number*

Context	**configure isa nat-group** *number* **session-limits**
Description	Number of sessions reserved for prioritized sessions
Range	1 to 6291456
Introduced	16.0.R1

upnp-mappings *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa nat-group** *number* **session-limits**
Description	Maximum number of Universal Plug and Play mappings per member
Range	1 to 524288
Default	524288
Introduced	16.0.R1

watermarks

Context	**configure isa nat-group** *number* **session-limits**
Description	Enter the watermarks context
Introduced	16.0.R1

high *number*

Context	**configure isa nat-group** *number* **session-limits watermarks**
Description	High watermark of the number of sessions for each MDA in this NAT ISA group
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure isa nat-group** *number* **session-limits watermarks**
Description	Low watermark of the number of sessions for each MDA in this NAT ISA group
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

tunnel-group [id] *number*

Context	**configure isa**
Description	Enter the tunnel-group context
Introduced	16.0.R1

[id] *number*

Context	**configure isa tunnel-group** *number*
Description	The unique identifier of the tunnel group.
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure isa tunnel-group** *number*
Description	The administrative state of the ISA tunnel group.
Default	disable
Options	enable, disable
Introduced	16.0.R1

backup *slot-mda*

Context	**configure isa tunnel-group** *number*
Description	The backup IPsec ISA to be used for this tunnel group.
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure isa tunnel-group** *number*
Description	The user-provided description for ISA tunnel group.
String Length	1 to 80
Introduced	16.0.R1

ipsec-responder-only *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa tunnel-group** *number*
Description	The IPsec tunnel responds the requests only and does not initiate exchanges with the peer.
Default	false
Introduced	16.0.R1

isa-scale-mode *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa tunnel-group** *number*
Description	The set of supported scaling modes for each ISA in this group.
Options	tunnel-limit-2k, tunnel-limit-32k, tunnel-limit-8
Introduced	16.0.R1
Notes	This element is mandatory

multi-active

Context	**configure isa tunnel-group** *number*
Description	Enter the **multi-active** context
Introduced	16.0.R1

active-isa-number *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa tunnel-group** *number* **multi-active**
Description	The number of active ISAs to be used by this tunnel group to load-balance IPsec traffic.
Range	1 to 16
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

isa [isa-id] *slot-mda*

Context	**configure isa tunnel-group** *number* **multi-active**
Description	Enter the **isa** context
Introduced	16.0.R1

[isa-id] *slot-mda*

Context	**configure isa tunnel-group** *number* **multi-active isa** *slot-mda*
Description	The ISA associated with this tunnel group.
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

primary *slot-mda*

Context	**configure isa tunnel-group** *number*
Description	The primary IPsec ISA to be used for this tunnel group.
Introduced	16.0.R1
Notes	This element is part of a choice

reassembly

Context	**configure isa tunnel-group** *number*
Description	Enter the reassembly context
Introduced	16.0.R1

max-wait-time *number*

Context	**configure isa tunnel-group** *number* **reassembly**
Description	The maximum number of milliseconds to wait to receive all fragments of a particular IPsec or GRE packet for reassembly. The value of this leaf must be a multiple of 100 milliseconds.
Range	1 to 5000
Units	milliseconds
Introduced	16.0.R1

stats-collection

Context	**configure isa tunnel-group** *number*
Description	Enter the stats-collection context
Introduced	16.0.R1

isa-dp-cpu-usage *boolean*

Context	**configure isa tunnel-group** *number* **stats-collection**
Description	Collect the historical data-plane CPU usage statistics.
Default	false
Introduced	16.0.R1

video-group [video-group-id] *number*

Context	**configure isa**
Description	Enter the video-group context
Max. Elements	4
Introduced	16.0.R1

[video-group-id] *number*

Context	**configure isa video-group** *number*
Description	Video group identifier
Range	1 to 4
Introduced	16.0.R1
Notes	This element is part of a list key

ad-insert *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa video-group** *number*
Description	Enable the ad insert server for the group
Default	false
Introduced	16.0.R1

admin-state *keyword*

Context	**configure isa video-group** *number*
Description	Administrative state of a video group
Default	disable
Options	enable, disable
Introduced	16.0.R1

analyzer *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa video-group** *number*
Description	Enable video analyzer for all streams on video group
Default	false
Introduced	16.0.R1

description *string*

Context	**configure isa video-group** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fcc-server *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa video-group** *number*
Description	Allow FCC server capability for the group
Default	false
Introduced	16.0.R1

local-rt-server *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa video-group** *number*
Description	Enable the local RET server for the group
Default	false
Introduced	16.0.R1

mda [mda-id] *slot-mda*

Context	**configure isa video-group** *number*
Description	Enter the mda context
Max. Elements	6
Introduced	16.0.R1

[mda-id] *slot-mda*

Context	**configure isa video-group** *number* **mda** *slot-mda*
Description	MDA identifier
Introduced	16.0.R1
Notes	This element is part of a list key

resv-ret *number*

Context	**configure isa video-group** *number*
Description	Egress bandwidth reserved for retransmission for all ISAs within a video group
Range	0 to 10500
Units	megabps
Introduced	16.0.R1

rt-client *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa video-group** *number*
Description	Allow client capability for retransmission
Default	true
Introduced	16.0.R1

stream-selection *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa video-group** *number*
Description	Allow stream selection for the group
Default	false
Introduced	16.0.R1

watermark

Context	**configure isa video-group** *number*
Description	Enter the watermark context
Introduced	16.0.R1

bandwidth

Context	**configure isa video-group** *number* **watermark**
Description	Enter the bandwidth context
Introduced	16.0.R1

fcc *number*

Context	**configure isa video-group** *number* **watermark bandwidth**
Description	FCC watermark parameters based on the bandwidth
Range	1 to 99
Default	90
Introduced	16.0.R1

ret *number*

Context	**configure isa video-group** *number* **watermark bandwidth**
Description	RET watermark parameters based on the bandwidth
Range	1 to 99
Default	90
Introduced	16.0.R1

total *number*

Context **configure isa video-group** *number* **watermark bandwidth**

Description Total watermark parameters based on the bandwidth

Range 1 to 99

Default 90

Introduced 16.0.R1

session

Context **configure isa video-group** *number* **watermark**

Description Enter the session context

Introduced 16.0.R1

fcc *number*

Context **configure isa video-group** *number* **watermark session**

Description FCC watermark parameters based on the session

Range 1 to 99

Default 90

Introduced 16.0.R1

ret *number*

Context **configure isa video-group** *number* **watermark session**

Description RET watermark parameters based on the session

Range 1 to 99

Default 90

Introduced 16.0.R1

total *number*

Context **configure isa video-group** *number* **watermark session**

Description Total watermark parameters based on the session

Range 1 to 99

Default 90

Introduced 16.0.R1

wlan-gw-group [id] *number*

Context	**configure isa**
Description	Enter the wlan-gw-group context
Max. Elements	1
Introduced	16.0.R1

[id] *number*

Context	**configure isa wlan-gw-group** *number*
Description	Unique value which to identify the WLAN-GW group within a chassis in system
Range	1 to 4
Introduced	16.0.R1
Notes	This element is part of a list key

active-iom-limit *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number*
Description	Number of WLAN-GW IOMs used as active IOMs
Range	1 to 7
Introduced	16.0.R1

active-mda-limit *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number*
Description	ISAs that can be active to use by the WLAN-GW group at the same time
Range	1 to 14
Introduced	16.0.R1

admin-state *keyword*

Context	**configure isa wlan-gw-group** *number*
Description	Administrative state of a WLAN gateway group
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure isa wlan-gw-group** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

iom [slot-number] *string*

Context	**configure isa wlan-gw-group** *number*
Description	Enter the iom context
Introduced	16.0.R1

[slot-number] *string*

Context	**configure isa wlan-gw-group** *number* **iom** *string*
Description	IOM slot to use in the WLAN-GW group
Reference	configure **card** (*iom-card-slot* | *cpm-card-slot*)
Introduced	16.0.R1
Notes	This element is part of a list key

mda [mda-id] *slot-mda*

Context	**configure isa wlan-gw-group** *number*
Description	Enter the mda context
Introduced	16.0.R1

[mda-id] *slot-mda*

Context	**configure isa wlan-gw-group** *number* **mda** *slot-mda*
Description	MDA slot value
Introduced	16.0.R1
Notes	This element is part of a list key

nat

Context	**configure isa wlan-gw-group** *number*
Description	Enter the nat context
Introduced	16.0.R1

log

Context	**configure isa wlan-gw-group** *number* **nat**
Description	Enter the log context
Introduced	16.0.R1

suppress-lsn-events *boolean*

Context	**configure isa wlan-gw-group** *number* **nat log**
Description	Suppress the generation of Large Scale NAT (LSN) events when RADIUS accounting is enabled
Default	true
Introduced	16.0.R1

suppress-lsn-sub-blocks-free *boolean*

Context	**configure isa wlan-gw-group** *number* **nat log**
Description	Suppress the LSN Free blocks and NAT pool block allocation notifications
Default	false
Introduced	16.0.R4

lsn *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number* **nat**
Description	Use Large Scale NAT
Default	true
Introduced	16.0.R1

radius-accounting-policy *string*

Context	**configure isa wlan-gw-group** *number* **nat**
Description	RADIUS accounting policy for ISA group
Reference	configure **aaa radius isa-policy** *string*
Introduced	16.0.R1

session-limits

Context	**configure isa wlan-gw-group** *number* **nat**
Description	Enter the session-limits context
Introduced	16.0.R1

reserved *number*

Context	**configure isa wlan-gw-group** *number* **nat session-limits**
Description	Number of sessions reserved for prioritized sessions
Range	1 to 6291456
Introduced	16.0.R1

upnp-mappings *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number* **nat session-limits**
Description	Maximum number of Universal Plug and Play mappings per member
Range	1 to 524288
Default	524288
Introduced	16.0.R1

watermarks

Context	**configure isa wlan-gw-group** *number* **nat session-limits**
Description	Enter the watermarks context
Introduced	16.0.R1

high *number*

Context	**configure isa wlan-gw-group** *number* **nat session-limits watermarks**
Description	High watermark of the number of sessions for each MDA in this NAT ISA group
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure isa wlan-gw-group** *number* **nat session-limits watermarks**
Description	Low watermark of the number of sessions for each MDA in this NAT ISA group
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

port-policy *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number*
Description	Base port configuration for WLAN-GW group ports that take part in per-UE QoS processing
Reference	configure **port-policy** *string*
Introduced	16.0.R1

redundancy *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number*
Description	Hardware unit subject to redundancy
Default	iom
Options	iom, mda
Introduced	16.0.R1

tunnel-port-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure isa wlan-gw-group** *number*
Description	
Reference	configure **port-policy** *string*
Introduced	16.0.R1

watermarks

Context	**configure isa wlan-gw-group** *number*
Description	Enter the watermarks context
Introduced	16.0.R1

mark [entity] *keyword*

Context	**configure isa wlan-gw-group** *number* **watermarks**
Description	Enter the mark context
Introduced	16.0.R1

[entity] *keyword*

Context	**configure isa wlan-gw-group** *number* **watermarks mark** *keyword*
Description	Entity to be monitored
Options	user-equipment, bridge-domain, radius-proxy-client
Introduced	16.0.R1
Notes	This element is part of a list key

high *number*

Context	**configure isa wlan-gw-group** *number* **watermarks mark** *keyword*
Description	High watermark for the WLAN-GW group
Range	1 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure isa wlan-gw-group** *number* **watermarks mark** *keyword*
Description	Low watermark for the WLAN-GW group
Range	0 to 99
Introduced	16.0.R1
Notes	This element is mandatory

16 lag Commands

configure
- — **lag** *number*
  - — **access**
    - — **adapt-qos**
      - — **include-egr-hash-cfg** *boolean*
      - — **mode** *keyword*
    - — **bandwidth** *number*
    - — **booking-factor** *number*
    - — **per-fp-egr-queuing** *boolean*
    - — **per-fp-ing-queuing** *boolean*
    - — **per-fp-sap-instance** *boolean*
  - — **admin-state** *keyword*
  - — **bfd-liveness**
    - — **ipv4**
      - — **admin-state** *keyword*
      - — **bfd-on-distributing-only** *boolean*
      - — **local-ip-address** *ipv4-unicast-address*
      - — **max-admin-down-time** (*number* | *keyword*)
      - — **max-setup-time** (*number* | *keyword*)
      - — **multiplier** *number*
      - — **receive-interval** *number*
      - — **remote-ip-address** *ipv4-unicast-address*
      - — **transmit-interval** *number*
    - — **ipv6**
      - — **admin-state** *keyword*
      - — **bfd-on-distributing-only** *boolean*
      - — **local-ip-address** *ipv6-unicast-address*
      - — **max-admin-down-time** (*number* | *keyword*)
      - — **max-setup-time** (*number* | *keyword*)
      - — **multiplier** *number*
      - — **receive-interval** *number*
      - — **remote-ip-address** *ipv6-unicast-address*
      - — **transmit-interval** *number*
    - — **soft-reset-extension** *boolean*
  - — **description** *string*
  - — **dynamic-cost** *boolean*
  - — **encap-type** *keyword*
  - — **eth-cfm**
    - — **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
      - — **admin-state** *keyword*
      - — **ais**
        - — **client-meg-level** *number*
        - — **interface-support** *boolean*
        - — **interval** *number*
        - — **low-priority-defect** *keyword*
        - — **priority** *number*
      - — **alarm-notification**
        - — **fng-alarm-time** *number*
        - — **fng-reset-time** *number*
      - — **ccm** *boolean*

- **ccm-ltm-priority** *number*
- **ccm-padding-size** *number*
- **collect-lmm-stats** *boolean*
- **csf**
  - **multiplier** *decimal-number*
- **description** *string*
- **eth-test**
  - **bit-error-threshold** *number*
  - **test-pattern**
    - **crc-tlv** *boolean*
    - **pattern** *keyword*
- **facility-fault** *boolean*
- **grace**
  - **eth-ed**
    - **max-rx-defect-window** *number*
    - **priority** *number*
    - **rx-eth-ed** *boolean*
    - **tx-eth-ed** *boolean*
  - **eth-vsm-grace**
    - **rx-eth-vsm-grace** *boolean*
    - **tx-eth-vsm-grace** *boolean*
- **low-priority-defect** *keyword*
- **mac-address** *mac-unicast-address*
- **one-way-delay-threshold** *number*
- **vlan** (*number* | *keyword*)

- **hold-time-down** *number*
- **lacp**
  - **administrative-key** *number*
  - **mode** *keyword*
  - **system-id** *mac-address*
  - **system-priority** *number*
- **lacp-mux-control** *keyword*
- **lacp-xmit-interval** *keyword*
- **lacp-xmit-stdby** *boolean*
- **link-map-profile** *number*
  - **description** *string*
  - **failure-mode** *keyword*
  - **link** *string*
    - **port-type** *keyword*
- **mac-address** *mac-address*
- **mode** *keyword*
- **per-link-hash**
  - **weighted**
    - **auto-rebalance** *boolean*
- **port** *string*
  - **priority** *number*
  - **sub-group** (*number* | *keyword*)
- **port-threshold**
  - **action** *keyword*
  - **cost** *number*
  - **value** *number*
- **port-type** *keyword*
- **port-weight-speed** *number*
- **selection-criteria**

- **mode** *keyword*
- **slave-to-partner** *boolean*
- **subgroup-hold-time** (*number* | *keyword*)

— **standby-signaling** *keyword*
— **weight-threshold**

- **action** *keyword*
- **cost** *number*
- **value** *number*

16.1 lag Command Descriptions

lag [lag-index] *number*

Context	**configure**
Description	Enter the lag context
Introduced	16.0.R1

[lag-index] *number*

Context	**configure lag** *number*
Description	LAG index
Range	1 to 800
Introduced	16.0.R1
Notes	This element is part of a list key

access

Context	**configure lag** *number*
Description	Enter the access context
Introduced	16.0.R1

adapt-qos

Context	**configure lag** *number* **access**
Description	Enter the adapt-qos context
Introduced	16.0.R1

include-egr-hash-cfg *boolean*

Context	**configure lag** *number* **access adapt-qos**
Description	Factor explicitly configured hashing into the egress buffering and rate distribution
Default	false
Introduced	16.0.R1

mode *keyword*

Context	**configure lag** *number* **access adapt-qos**
Description	QoS adaptation mode
Options	link, distribute, port-fair
Introduced	16.0.R1

bandwidth *number*

Context	**configure lag** *number* **access**
Description	Administrative bandwidth applied to this LAG
Range	1 to 3200000000
Units	kilobps
Introduced	16.0.R1

booking-factor *number*

Context	**configure lag** *number* **access**
Description	Booking factor against the administrative bandwidth
Range	1 to 1000
Default	100
Introduced	16.0.R1

per-fp-egr-queuing *boolean*

Context	**configure lag** *number* **access**
Description	Per FP egress queuing
Default	false
Introduced	16.0.R1

per-fp-ing-queuing *boolean*

Context	**configure lag** *number* **access**
Description	Per-fp-ing-queuing to be set if no port members exists in the LAG
Default	false
Introduced	16.0.R1

per-fp-sap-instance *boolean*

Context	**configure lag** *number* **access**
Description	SAP instance allocation on a LAG
Default	false
Introduced	16.0.R1

admin-state *keyword*

Context	**configure lag** *number*
Description	Administrative state of LAG
Default	disable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure lag** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

ipv4

Context	**configure lag** *number* **bfd-liveness**
Description	Enter the ipv4 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Administrative state of micro-BFD sessions for this address family
Default	disable
Options	enable, disable
Introduced	16.0.R1

bfd-on-distributing-only *boolean*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Restrict micro-BFD sessions to links in LACP state distributing
Default	false
Introduced	16.0.R1

local-ip-address *ipv4-unicast-address*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	BFD source address
Introduced	16.0.R1

max-admin-down-time (*number* | *keyword*)

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Maximum time to behave as if the micro-BFD session was up while the remote end is down
Range	0 to 3600
Default	0
Units	seconds
Options	infinite
Introduced	16.0.R1

max-setup-time (*number* | *keyword*)

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Maximum time to behave as if the micro-BFD session was up while it is actually still being set up
Range	0 to 60000
Default	infinite
Units	milliseconds
Options	infinite
Introduced	16.0.R1

multiplier *number*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Number of BFD messages to miss before the micro-BFD session goes down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive-interval *number*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Receive timer for micro-BFD session over the associated LAG links
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

remote-ip-address *ipv4-unicast-address*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	BFD destination address
Introduced	16.0.R1

transmit-interval *number*

Context	**configure lag** *number* **bfd-liveness ipv4**
Description	Transmit timer for micro-BFD session over the associated LAG links
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

ipv6

Context	**configure lag** *number* **bfd-liveness**
Description	Enter the ipv6 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Administrative state of micro-BFD sessions for this address family
Default	disable
Options	enable, disable
Introduced	16.0.R1

bfd-on-distributing-only *boolean*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Restrict micro-BFD sessions to links in LACP state distributing
Default	false
Introduced	16.0.R1

local-ip-address *ipv6-unicast-address*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	BFD source address
Introduced	16.0.R1

max-admin-down-time (*number* | *keyword*)

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Maximum time to behave as if the micro-BFD session was up while the remote end is down
Range	0 to 3600
Default	0
Units	seconds
Options	infinite
Introduced	16.0.R1

max-setup-time (*number* | *keyword*)

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Maximum time to behave as if the micro-BFD session was up while it is actually still being set up
Range	0 to 60000
Default	infinite
Units	milliseconds
Options	infinite
Introduced	16.0.R1

multiplier *number*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Number of BFD messages to miss before the micro-BFD session goes down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive-interval *number*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Receive timer for micro-BFD session over the associated LAG links
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

remote-ip-address *ipv6-unicast-address*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	BFD destination address
Introduced	16.0.R1

transmit-interval *number*

Context	**configure lag** *number* **bfd-liveness ipv6**
Description	Transmit timer for micro-BFD session over the associated LAG links
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

soft-reset-extension *boolean*

Context	**configure lag** *number* **bfd-liveness**
Description	Extend BFD timers during soft reset
Default	true
Introduced	16.0.R1

description *string*

Context	**configure lag** *number*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dynamic-cost *boolean*

Context	**configure lag** *number*
Description	Allow OSPF or ISIS costing of a LAG based on available aggregated, operational bandwidth
Default	false
Introduced	16.0.R1

encap-type *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure lag** *number*
Description	Encapsulation type
Options	null, dot1q, qinq
Introduced	16.0.R1

eth-cfm

Context	**configure lag** *number*
Description	Enter the eth-cfm context
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure lag** *number* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the ais context
Introduced	16.0.R1

client-meg-level *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Client MEG level for AIS message generation
Range	1 to 7
Max. Elements	7
Introduced	16.0.R1

interface-support *boolean*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Allow generation of AIS PDUs based on the associated endpoint state
Default	false
Introduced	16.0.R1

interval *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Transmission interval for AIS messages
Range	1 | 60
Default	1
Units	seconds
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the alarm-notification context

Introduced 16.0.R1

fng-alarm-time *number*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**

Description Time to expire before a Fault Notification Generation (FNG) alarm

Range 250 | 500 | 1000

Units centiseconds

Introduced 16.0.R1

fng-reset-time *number*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**

Description Time to expire before a Fault Notification Generation (FNG) alarm is reset

Range 250 | 500 | 1000

Units centiseconds

Introduced 16.0.R1

ccm *boolean*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Generate CCM messages

Default false

Introduced 16.0.R1

ccm-ltm-priority *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

csf

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the csf context
Introduced	16.0.R1

multiplier *decimal-number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-test

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-test context
Introduced	16.0.R1

bit-error-threshold *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Lowest priority defect threshold for the bit error trap to generate a fault alarm
Range	0 to 11840
Default	1
Units	bit errors
Introduced	16.0.R1

test-pattern

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Enter the test-pattern context
Introduced	16.0.R1

crc-tlv *boolean*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**
Description	Generate a CRC checksum
Default	false
Introduced	16.0.R1

pattern *keyword*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**
Description	Test pattern for eth-test frames
Default	all-zeros
Options	all-zeros, all-ones
Introduced	16.0.R1

facility-fault *boolean*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Allow the facility MEP to move from alarming only to network actionable function
Default	false
Introduced	16.0.R1

grace

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the grace context
Introduced	16.0.R1

eth-ed

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**
Description	Enter the eth-ed context
Introduced	16.0.R1

max-rx-defect-window *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Transmission priority for ETH-ED PDUs
Range	0 to 7
Introduced	16.0.R1

rx-eth-ed *boolean*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Receive and process ETH-ED PDUs
Default	true
Introduced	16.0.R1

tx-eth-ed *boolean*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Transmit ETH-ED PDUs
Default	false
Introduced	16.0.R1

eth-vsm-grace

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP

Default true

Introduced 16.0.R1

low-priority-defect *keyword*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Lowest priority defect that is allowed to generate a fault alarm

Default mac-rem-err-xcon

Options all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon

Introduced 16.0.R1

mac-address *mac-unicast-address*

Context **configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description MAC address for the MEP

Introduced 16.0.R1

one-way-delay-threshold *number*

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

vlan (*number* | *keyword*)



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure lag** *number* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique VLAN ID for a specific VLAN
Default	none
Introduced	16.0.R1

hold-time-down *number*

Context	**configure lag** *number*
Description	Delay time between detecting that a LAG is down and reporting to higher levels
Range	1 to 2000
Units	deciseconds
Introduced	16.0.R1

lacp

Context	**configure lag** *number*
Description	Enter the lacp context
Introduced	16.0.R1

administrative-key *number*

Context	**configure lag** *number* **lacp**
Description	LACP key
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

mode *keyword*

Context	**configure lag** *number* **lacp**
Description	Mode in which LACP operates
Default	passive
Options	passive, active
Introduced	16.0.R1

system-id *mac-address*

Context	**configure lag** *number* **lacp**
Description	System identifier for the system
Default	00:00:00:00:00:00
Introduced	16.0.R1

system-priority *number*

Context	**configure lag** *number* **lacp**
Description	System priority value
Range	0 to 65535
Introduced	16.0.R1

lacp-mux-control *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure lag** *number*
Description	Machine control to us in a LAG with LACP in active or passive modes
Default	coupled
Options	coupled, independent
Introduced	16.0.R1

lacp-xmit-interval *keyword*

Context	**configure lag** *number*
Description	Time for periodic transmission
Default	fast
Options	slow, fast
Introduced	16.0.R1

lacp-xmit-stdby *boolean*

Context	**configure lag** *number*
Description	Allow LACP message transmission on standby links
Default	true
Introduced	16.0.R1

link-map-profile [link-map-profile-id] *number*

Context	**configure lag** *number*
Description	Enter the link-map-profile context
Introduced	16.0.R1

[link-map-profile-id] *number*

Context	**configure lag** *number* **link-map-profile** *number*
Description	Link map profile to control LAG ports
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure lag** *number* **link-map-profile** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

failure-mode *keyword*

Context	**configure lag** *number* **link-map-profile** *number*
Description	Failure mode of LAG link profile
Default	per-link-hash
Options	per-link-hash, discard
Introduced	16.0.R1

link [port-id] *string*

Context	**configure lag** *number* **link-map-profile** *number*
Description	Enter the link context
Introduced	16.0.R1

[port-id] *string*

Context	**configure lag** *number* **link-map-profile** *number* **link** *string*
Description	Port associated with the link map profile
Reference	configure **lag** *number* **port** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

port-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure lag** *number* **link-map-profile** *number* **link** *string*
Description	Type of the associated port for this entry
Options	primary, secondary
Introduced	16.0.R1
Notes	This element is mandatory

mac-address *mac-address*

Context	**configure lag** *number*
Description	Static MAC address for the LAG
Default	00:00:00:00:00:00
Introduced	16.0.R1

mode *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure lag** *number*
Description	Port mode of the LAG
Default	network
Options	access, network, hybrid
Introduced	16.0.R1

per-link-hash

Context	**configure lag** *number*
Description	Enter the per-link-hash context
Introduced	16.0.R1

weighted

Context	**configure lag** *number* **per-link-hash**
Description	Enter the weighted context
Introduced	16.0.R1

auto-rebalance *boolean*

Context	**configure lag** *number* **per-link-hash weighted**
Description	Automatically rebalance existing SAPs, subscribers, or interfaces when new links are added to a LAG
Default	false
Introduced	16.0.R1

port [port-id] *string*

Context	**configure lag** *number*
Description	Enter the port context
Introduced	16.0.R1

[port-id] *string*

Context	**configure lag** *number* **port** *string*
Description	Identifier to uniquely identify the port in the LAG
Reference	configure **port** *port*
Introduced	16.0.R1
Notes	This element is part of a list key

priority *number*

Context	**configure lag** *number* **port** *string*
Description	Priority of the port in the LAG
Range	1 to 65535
Default	32768
Introduced	16.0.R1

sub-group (*number* | *keyword*)



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure lag** *number* **port** *string*
Description	Subgroup of the port in the LAG
Range	1 to 8
Default	1
Options	auto-iom, auto-mda
Introduced	16.0.R1

port-threshold

Context	**configure lag** *number*
Description	Enter the port-threshold context
Introduced	16.0.R1

action *keyword*

Context	**configure lag** *number* **port-threshold**
Description	Action to take if the number of operational links is equal or below a threshold level
Default	down
Options	down, dynamic-cost, static-cost
Introduced	16.0.R1

cost *number*

Context	**configure lag** *number* **port-threshold**
Description	Cost of the LAG if the action is equal to static-cost. The cost can be used by IGP such as OSPF and ISIS.
Range	1 to 16777215
Introduced	16.0.R3

value *number*

Context	**configure lag** *number* **port-threshold**
Description	Number of operational links for the LAG at or below which the configured action is invoked
Range	0 to 63
Introduced	16.0.R1

port-type *keyword*

Context	**configure lag** *number*
Description	Port type of the LAG
Default	standard
Options	standard, hsmda, hs
Introduced	16.0.R1

port-weight-speed *number*

Context	**configure lag** *number*
Description	Speed corresponding to a port weight unit
Range	1 | 10
Units	gigabps
Introduced	16.0.R1

selection-criteria

Context	**configure lag** *number*
Description	Enter the selection-criteria context
Introduced	16.0.R1

mode *keyword*

Context	**configure lag** *number* **selection-criteria**
Description	Criteria to select the active subgroup
Default	highest-count
Options	highest-count, highest-weight, best-port
Introduced	16.0.R1

slave-to-partner *boolean*

Context	**configure lag** *number* **selection-criteria**
Description	Use slave-to-partner for selection criteria
Default	false
Introduced	16.0.R1

subgroup-hold-time (*number* | *keyword*)

Context	**configure lag** *number* **selection-criteria**
Description	Time to delay when switching to a newly selected active sub-group from the existing active sub-group
Range	0 to 2000
Default	0
Units	deciseconds
Options	infinite
Introduced	16.0.R1

standby-signaling *keyword*

Context	**configure lag** *number*
Description	Way of signaling a member port to the remote side
Default	lacp
Options	lacp, power-off
Introduced	16.0.R1

weight-threshold

Context	**configure lag** *number*
Description	Enter the weight-threshold context
Introduced	16.0.R1

action *keyword*

Context	**configure lag** *number* **weight-threshold**
Description	Action to take if the number of active links in the LAG is at or below the threshold value
Default	down
Options	down, dynamic-cost, static-cost
Introduced	16.0.R1

cost *number*

Context	**configure lag** *number* **weight-threshold**
Description	Cost of the LAG if the action is equal to static-cost. The cost can be used by IGP such as OSPF and ISIS.
Range	1 to 16777215
Introduced	16.0.R3

value *number*

Context	**configure lag** *number* **weight-threshold**
Description	Integer threshold number of operational links for the LAG
Range	0 to 63
Introduced	16.0.R1

17 log Commands

configure
- log
  - accounting-policy *number*
    - admin-state *keyword*
    - collection-interval *number*
    - custom-record
      - aa-specific
        - from-sub-counters
          - flows-active-count *boolean*
          - flows-admitted-count *boolean*
          - flows-denied-count *boolean*
          - forwarding-class *boolean*
          - max-throughput-octet-count *boolean*
          - max-throughput-packet-count *boolean*
          - max-throughput-timestamp *boolean*
          - octets-admitted-count *boolean*
          - octets-denied-count *boolean*
          - packets-admitted-count *boolean*
          - packets-denied-count *boolean*
        - sub-attributes
          - app-service-options *boolean*
        - sub-counters
          - long-duration-flow-count *boolean*
          - medium-duration-flow-count *boolean*
          - short-duration-flow-count *boolean*
          - total-flow-duration *boolean*
          - total-flows-completed-count *boolean*
        - to-sub-counters
          - flows-active-count *boolean*
          - flows-admitted-count *boolean*
          - flows-denied-count *boolean*
          - forwarding-class *boolean*
          - max-throughput-octet-count *boolean*
          - max-throughput-packet-count *boolean*
          - max-throughput-timestamp *boolean*
          - octets-admitted-count *boolean*
          - octets-denied-count *boolean*
          - packets-admitted-count *boolean*
          - packets-denied-count *boolean*
      - queue *number*
        - e-counters
          - in-profile-octets-discarded-count *boolean*
          - in-profile-octets-forwarded-count *boolean*
          - in-profile-packets-discarded-count *boolean*
          - in-profile-packets-forwarded-count *boolean*
          - out-profile-octets-discarded-count *boolean*
          - out-profile-octets-forwarded-count *boolean*
          - out-profile-packets-discarded-count *boolean*
          - out-profile-packets-forwarded-count *boolean*
        - i-counters

- **all-octets-offered-count** *boolean*
- **all-packets-offered-count** *boolean*
- **high-octets-discarded-count** *boolean*
- **high-octets-offered-count** *boolean*
- **high-packets-discarded-count** *boolean*
- **high-packets-offered-count** *boolean*
- **in-profile-octets-forwarded-count** *boolean*
- **in-profile-packets-forwarded-count** *boolean*
- **low-octets-discarded-count** *boolean*
- **low-octets-offered-count** *boolean*
- **low-packets-discarded-count** *boolean*
- **low-packets-offered-count** *boolean*
- **out-profile-octets-forwarded-count** *boolean*
- **out-profile-packets-forwarded-count** *boolean*
- **uncoloured-octets-offered-count** *boolean*
- **uncoloured-packets-offered-count** *boolean*

- **ref-aa-specific-counter**
  - **any** *boolean*
- **ref-override-counter**
  - **all**
  - **e-counters**
    - **in-profile-octets-discarded-count** *boolean*
    - **in-profile-octets-forwarded-count** *boolean*
    - **in-profile-packets-discarded-count** *boolean*
    - **in-profile-packets-forwarded-count** *boolean*
    - **out-profile-octets-discarded-count** *boolean*
    - **out-profile-octets-forwarded-count** *boolean*
    - **out-profile-packets-discarded-count** *boolean*
    - **out-profile-packets-forwarded-count** *boolean*
  - **i-counters**
    - **all-octets-offered-count** *boolean*
    - **all-packets-offered-count** *boolean*
    - **high-octets-discarded-count** *boolean*
    - **high-packets-discarded-count** *boolean*
    - **in-profile-octets-forwarded-count** *boolean*
    - **in-profile-packets-forwarded-count** *boolean*
    - **low-octets-discarded-count** *boolean*
    - **low-packets-discarded-count** *boolean*
    - **out-profile-octets-forwarded-count** *boolean*
    - **out-profile-packets-forwarded-count** *boolean*
  - **id** *number*
- **ref-queue**
  - **all**
  - **e-counters**
    - **in-profile-octets-discarded-count** *boolean*
    - **in-profile-octets-forwarded-count** *boolean*
    - **in-profile-packets-discarded-count** *boolean*
    - **in-profile-packets-forwarded-count** *boolean*
    - **out-profile-octets-discarded-count** *boolean*
    - **out-profile-octets-forwarded-count** *boolean*
    - **out-profile-packets-discarded-count** *boolean*
    - **out-profile-packets-forwarded-count** *boolean*
  - **i-counters**
    - **all-octets-offered-count** *boolean*

- **all-packets-offered-count** *boolean*
- **high-octets-discarded-count** *boolean*
- **high-octets-offered-count** *boolean*
- **high-packets-discarded-count** *boolean*
- **high-packets-offered-count** *boolean*
- **in-profile-octets-forwarded-count** *boolean*
- **in-profile-packets-forwarded-count** *boolean*
- **low-octets-discarded-count** *boolean*
- **low-octets-offered-count** *boolean*
- **low-packets-discarded-count** *boolean*
- **low-packets-offered-count** *boolean*
- **out-profile-octets-forwarded-count** *boolean*
- **out-profile-packets-forwarded-count** *boolean*
- **uncoloured-octets-offered-count** *boolean*
- **uncoloured-packets-offered-count** *boolean*
- **id** *string*
- **significant-change** *number*
- **default** *boolean*
- **description** *string*
- **destination**
- **file** *string*
- **null**
- **include-system-info** *boolean*
- **record** *keyword*
- **app-route-notifications**
- **cold-start-wait** *number*
- **route-recovery-wait** *number*
- **event-damping** *boolean*
- **event-handling**
- **handler** *string*
- **admin-state** *keyword*
- **description** *string*
- **entry** *number*
- **admin-state** *keyword*
- **description** *string*
- **min-delay** *number*
- **script-policy**
- **name** *string*
- **owner** *string*
- **event-trigger**
- **adp event** *keyword*
- **admin-state** *keyword*
- **description** *string*
- **entry** *number*
- **admin-state** *keyword*
- **debounce**
- **time** *number*
- **value** *number*
- **description** *string*
- **filter** *string*
- **handler** *string*
- **application-assurance event** *keyword*
- **admin-state** *keyword*
- **description** *string*

- **entry** *number*
  - **admin-state** *keyword*
  - **debounce**
    - **time** *number*
    - **value** *number*
  - **description** *string*
  - **filter** *string*
  - **handler** *string*
- **aps event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **atm event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **auto-prov event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **bfd event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **bgp event** *keyword*
  - **admin-state** *keyword*

- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**
    - — **time** *number*
    - — **value** *number*
  - — **description** *string*
  - — **filter** *string*
  - — **handler** *string*
- — **calltrace event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **cflowd event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **chassis event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **debug event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **dhcp event** *keyword*

- **admin-state** *keyword*
- **description** *string*
- **entry** *number*
  - **admin-state** *keyword*
  - **debounce**
    - **time** *number*
    - **value** *number*
  - **description** *string*
  - **filter** *string*
  - **handler** *string*
- **dhcps event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **diameter event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **dynsvc event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **efm-oam event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*

- **elmi event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **ering event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **eth-cfm event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **etun event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **filter event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*

- — **handler** *string*
- — **gmpls event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **gsmp event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **igh event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **igmp event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **igmp-snooping event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*

- **filter** *string*
- **handler** *string*

- **ip event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **ipsec event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **isis event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **l2tp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **lag event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*

- **description** *string*
- **filter** *string*
- **handler** *string*

- **ldap event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **ldp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **li event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **lldp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **lmp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*

- — **value** *number*
- — **description** *string*
- — **filter** *string*
- — **handler** *string*

— **logger event** *keyword*
- — **admin-state** *keyword*
- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**
    - — **time** *number*
    - — **value** *number*
  - — **description** *string*
  - — **filter** *string*
  - — **handler** *string*

— **macsec event** *keyword*
- — **admin-state** *keyword*
- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**
    - — **time** *number*
    - — **value** *number*
  - — **description** *string*
  - — **filter** *string*
  - — **handler** *string*

— **mc-redundancy event** *keyword*
- — **admin-state** *keyword*
- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**
    - — **time** *number*
    - — **value** *number*
  - — **description** *string*
  - — **filter** *string*
  - — **handler** *string*

— **mcpath event** *keyword*
- — **admin-state** *keyword*
- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**
    - — **time** *number*
    - — **value** *number*
  - — **description** *string*
  - — **filter** *string*
  - — **handler** *string*

— **mgmt-core event** *keyword*
- — **admin-state** *keyword*
- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**

- **time** *number*
- **value** *number*
- **description** *string*
- **filter** *string*
- **handler** *string*

- **mirror event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **mld event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **mld-snooping event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **mpls event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **mpls-tp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*

- **debounce**
  - **time** *number*
  - **value** *number*
- **description** *string*
- **filter** *string*
- **handler** *string*

- **msdp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **nat event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **ntp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **oam event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **openflow event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*

- **admin-state** *keyword*
- **debounce**
  - **time** *number*
  - **value** *number*
- **description** *string*
- **filter** *string*
- **handler** *string*

- **ospf event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **pcap event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **pim event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **pim-snooping event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **port event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*

- **entry** *number*
  - **admin-state** *keyword*
  - **debounce**
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    - **value** *number*
  - **description** *string*
  - **filter** *string*
  - **handler** *string*
- **ppp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
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    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **pppoe event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
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    - **admin-state** *keyword*
    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **pppoe-clnt event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **ptp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **radius event** *keyword*
  - **admin-state** *keyword*

- **description** *string*
- **entry** *number*
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  - **debounce**
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    - **value** *number*
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  - **handler** *string*
- **rip event** *keyword*
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  - **description** *string*
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    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **ripng event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
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    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **route-policy event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
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      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **rpki event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
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    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **rsvp event** *keyword*

- — **admin-state** *keyword*
- — **description** *string*
- — **entry** *number*
  - — **admin-state** *keyword*
  - — **debounce**
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    - — **value** *number*
  - — **description** *string*
  - — **filter** *string*
  - — **handler** *string*
- — **satellite event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
    - — **debounce**
      - — **time** *number*
      - — **value** *number*
    - — **description** *string*
    - — **filter** *string*
    - — **handler** *string*
- — **security event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
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    - — **debounce**
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      - — **value** *number*
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    - — **filter** *string*
    - — **handler** *string*
- — **sflow event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
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      - — **value** *number*
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    - — **filter** *string*
    - — **handler** *string*
- — **snmp event** *keyword*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **entry** *number*
    - — **admin-state** *keyword*
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      - — **value** *number*
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    - — **filter** *string*
    - — **handler** *string*

- **stp event** *keyword*
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  - **description** *string*
  - **entry** *number*
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    - **debounce**
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      - **value** *number*
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    - **filter** *string*
    - **handler** *string*
- **svcmgr event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **system event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **user event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **video event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*

- **handler** *string*
- **vrrp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **vrtr event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **wlan-gw event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **wpp event** *keyword*
  - **admin-state** *keyword*
  - **description** *string*
  - **entry** *number*
    - **admin-state** *keyword*
    - **debounce**
      - **time** *number*
      - **value** *number*
    - **description** *string*
    - **filter** *string*
    - **handler** *string*
- **file** *number*
  - **compact-flash-location**
    - **backup** *keyword*
    - **primary** *keyword*
  - **description** *string*
  - **retention** *number*
  - **rollover** *number*
- **filter** *number*
  - **default-action** *keyword*

- **description** *string*
- **entry** *number*
  - **action** *keyword*
  - **description** *string*
  - **match**
    - **application**
      - **eq** *keyword*
      - **neq** *keyword*
    - **event**
      - **eq** *number*
      - **gt** *number*
      - **gte** *number*
      - **lt** *number*
      - **lte** *number*
      - **neq** *number*
    - **message**
      - **eq** *string*
      - **neq** *string*
      - **regexp** *boolean*
    - **severity**
      - **eq** *keyword*
      - **gt** *keyword*
      - **gte** *keyword*
      - **lt** *keyword*
      - **lte** *keyword*
      - **neq** *keyword*
    - **subject**
      - **eq** *string*
      - **neq** *string*
      - **regexp** *boolean*
    - **vrtr-name**
      - **eq** *string*
      - **neq** *string*
      - **regexp** *boolean*
- **log-events**
  - **adp event** *keyword*
    - **generate** *boolean*
    - **repeat** *boolean*
    - **severity** *keyword*
    - **specific-throttle** *boolean*
    - **specific-throttle-interval** *number*
    - **specific-throttle-limit** *number*
    - **throttle** *boolean*
  - **application-assurance event** *keyword*
    - **generate** *boolean*
    - **repeat** *boolean*
    - **severity** *keyword*
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    - **specific-throttle-interval** *number*
    - **specific-throttle-limit** *number*
    - **throttle** *boolean*
  - **aps event** *keyword*
    - **generate** *boolean*
    - **repeat** *boolean*

- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

- **atm event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **auto-prov event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **bfd event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **bgp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **calltrace event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **cflowd event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **chassis event** *keyword*

- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **debug event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **dhcp event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **dhcps event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **diameter event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **dynsvc event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **efm-oam event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*

- **throttle** *boolean*
- **elmi event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **ering event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **eth-cfm event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
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  - **specific-throttle-limit** *number*
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- **etun event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **filter event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **gmpls event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **gsmp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*

- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

- **igh event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **igmp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
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  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **igmp-snooping event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **ip event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **ipsec event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **isis event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **l2tp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*

- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **lag event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **ldap event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **ldp event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **li event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **lldp event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **lmp event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **logger event** *keyword*

- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **macsec event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **mc-redundancy event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **mcpath event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **mgmt-core event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **mirror event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **mld event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*

- **throttle** *boolean*
- **mld-snooping event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **mpls event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **mpls-tp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **msdp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **nat event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
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  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **ntp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **oam event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*

- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **openflow event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **ospf event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **pcap event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **pim event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **pim-snooping event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **port event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **ppp event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*

- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **pppoe event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **pppoe-clnt event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **ptp event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **radius event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **rip event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **ripng event** *keyword*
- **generate** *boolean*
- **repeat** *boolean*
- **severity** *keyword*
- **specific-throttle** *boolean*
- **specific-throttle-interval** *number*
- **specific-throttle-limit** *number*
- **throttle** *boolean*

— **route-policy event** *keyword*

- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **rpki event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **rsvp event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **satellite event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **security event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **sflow event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*

— **snmp event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*

- **throttle** *boolean*
- **stp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **svcmgr event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **system event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **user event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **video event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **vrrp event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*
  - **specific-throttle-interval** *number*
  - **specific-throttle-limit** *number*
  - **throttle** *boolean*
- **vrtr event** *keyword*
  - **generate** *boolean*
  - **repeat** *boolean*
  - **severity** *keyword*
  - **specific-throttle** *boolean*

- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*
- — **wlan-gw event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*
- — **wpp event** *keyword*
- — **generate** *boolean*
- — **repeat** *boolean*
- — **severity** *keyword*
- — **specific-throttle** *boolean*
- — **specific-throttle-interval** *number*
- — **specific-throttle-limit** *number*
- — **throttle** *boolean*
- — **log-id** *number*
- — **admin-state** *keyword*
- — **description** *string*
- — **destination**
- — **cli**
- — **max-entries** *number*
- — **console**
- — **file** *string*
- — **memory**
- — **max-entries** *number*
- — **netconf**
- — **max-entries** *number*
- — **snmp**
- — **max-entries** *number*
- — **syslog** *string*
- — **filter** *string*
- — **netconf-stream** *string*
- — **python-policy** *string*
- — **source**
- — **change** *boolean*
- — **debug** *boolean*
- — **main** *boolean*
- — **security** *boolean*
- — **time-format** *keyword*
- — **route-preference**
- — **primary** *keyword*
- — **secondary** *keyword*
- — **snmp-trap-group** *number*
- — **description** *string*
- — **trap-target** *string*
- — **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- — **description** *string*
- — **notify-community** *string*
- — **port** *number*
- — **replay** *boolean*

- **security-level** *keyword*
- **version** *keyword*

- **syslog** *number*
  - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  - **description** *string*
  - **facility** *keyword*
  - **log-prefix** (*keyword* | *string*)
  - **port** *number*
  - **severity** *keyword*
- **throttle-rate**
  - **interval** *number*
  - **limit** *number*

17.1 log Command Descriptions

log

Context	**configure**
Description	Enter the log context
Introduced	16.0.R1

accounting-policy [policy-id] *number*

Context	**configure log**
Description	Enter the accounting-policy context
Introduced	16.0.R1

[policy-id] *number*

Context	**configure log accounting-policy** *number*
Description	Accounting policy unique ID
Range	1 to 99
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log accounting-policy** *number*
Description	Administrative state of this policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

collection-interval *number*

Context	**configure log accounting-policy** *number*
Description	Accounting collection interval
Range	1 to 120
Units	minutes
Introduced	16.0.R1

custom-record

Context **configure log accounting-policy** *number*
Description Enter the custom-record context
Introduced 16.0.R1

aa-specific

Context **configure log accounting-policy** *number* **custom-record**
Description Enter the aa-specific context
Introduced 16.0.R1

from-sub-counters

Context **configure log accounting-policy** *number* **custom-record aa-specific**
Description Enter the from-sub-counters context
Introduced 16.0.R1

flows-active-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**
Description Include the active flows
Default false
Introduced 16.0.R1

flows-admitted-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**
Description Include the admitted flows
Default false
Introduced 16.0.R1

flows-denied-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**
Description Include the denied flows
Default false
Introduced 16.0.R1

forwarding-class *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**

Description Include forwarding class

Default false

Introduced 16.0.R1

max-throughput-octet-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**

Description Include maximum throughput as measured in octet count

Default false

Introduced 16.0.R1

max-throughput-packet-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**

Description Include maximum throughput as measured in packet count

Default false

Introduced 16.0.R1

max-throughput-timestamp *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**

Description Include timestamp of the maximum throughput

Default false

Introduced 16.0.R1

octets-admitted-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**

Description Include the admitted octets count

Default false

Introduced 16.0.R1

octets-denied-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**
Description	Include the denied octets count
Default	false
Introduced	16.0.R1

packets-admitted-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**
Description	Include the admitted packets count
Default	false
Introduced	16.0.R1

packets-denied-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific from-sub-counters**
Description	Include the denied packets count
Default	false
Introduced	16.0.R1

sub-attributes

Context	**configure log accounting-policy** *number* **custom-record aa-specific**
Description	Enter the sub-attributes context
Introduced	16.0.R1

app-service-options *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific sub-attributes**
Description	Include application service options
Default	false
Introduced	16.0.R1

sub-counters

Context **configure log accounting-policy** *number* **custom-record aa-specific**

Description Enter the sub-counters context

Introduced 16.0.R1

long-duration-flow-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific sub-counters**

Description Include the long duration flow count

Default false

Introduced 16.0.R1

medium-duration-flow-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific sub-counters**

Description Include the medium duration flow

Default false

Introduced 16.0.R1

short-duration-flow-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific sub-counters**

Description Include the short duration flow count

Default false

Introduced 16.0.R1

total-flow-duration *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific sub-counters**

Description Include the total flow duration count

Default false

Introduced 16.0.R1

total-flows-completed-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific sub-counters**
Description	Include the total of completed flows count
Default	false
Introduced	16.0.R1

to-sub-counters

Context	**configure log accounting-policy** *number* **custom-record aa-specific**
Description	Enter the to-sub-counters context
Introduced	16.0.R1

flows-active-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**
Description	Include the active flows
Default	false
Introduced	16.0.R1

flows-admitted-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**
Description	Include the admitted flows
Default	false
Introduced	16.0.R1

flows-denied-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**
Description	Include the denied flows
Default	false
Introduced	16.0.R1

forwarding-class *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**

Description Include forwarding class

Default false

Introduced 16.0.R1

max-throughput-octet-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**

Description Include maximum throughput as measured in octet count

Default false

Introduced 16.0.R1

max-throughput-packet-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**

Description Include maximum throughput as measured in packet count

Default false

Introduced 16.0.R1

max-throughput-timestamp *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**

Description Include timestamp of the maximum throughput

Default false

Introduced 16.0.R1

octets-admitted-count *boolean*

Context **configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**

Description Include the admitted octets count

Default false

Introduced 16.0.R1

octets-denied-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**
Description	Include the denied octets count
Default	false
Introduced	16.0.R1

packets-admitted-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**
Description	Include the admitted packets count
Default	false
Introduced	16.0.R1

packets-denied-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record aa-specific to-sub-counters**
Description	Include the denied packets count
Default	false
Introduced	16.0.R1

queue [id] *number*

Context	**configure log accounting-policy** *number* **custom-record**
Description	Enter the queue context
Introduced	16.0.R1

[id] *number*

Context	**configure log accounting-policy** *number* **custom-record queue** *number*
Description	Custom record queue ID
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

e-counters

Context **configure log accounting-policy** *number* **custom-record queue** *number*

Description Enter the e-counters context

Introduced 16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**

Description Include the in-profile octets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**

Description Include the in-profile packets discarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

out-profile-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**
Description	Include the out-profile octets discarded count
Default	false
Introduced	16.0.R1

out-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**
Description	Include the out-of-profile octets forwarded count
Default	false
Introduced	16.0.R1

out-profile-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**
Description	Include the out-profile packets discarded count
Default	false
Introduced	16.0.R1

out-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **e-counters**
Description	Include the out-of-profile packets forwarded count
Default	false
Introduced	16.0.R1

i-counters

Context	**configure log accounting-policy** *number* **custom-record queue** *number*
Description	Enter the i-counters context
Introduced	16.0.R1

all-octets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the all octets offered count
Default	false
Introduced	16.0.R1

all-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include all packets offered count
Default	false
Introduced	16.0.R1

high-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the high octets discarded count
Default	false
Introduced	16.0.R1

high-octets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the high octets offered count
Default	false
Introduced	16.0.R1

high-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the high packets discarded count
Default	false
Introduced	16.0.R1

high-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the high packets offered count
Default	false
Introduced	16.0.R1

in-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the in-profile octets forwarded count
Default	false
Introduced	16.0.R1

in-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the in-profile packets forwarded count
Default	false
Introduced	16.0.R1

low-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the low octets discarded count
Default	false
Introduced	16.0.R1

low-octets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the low octets offered count
Default	false
Introduced	16.0.R1

low-packets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**

Description Include the low packets discarded count

Default false

Introduced 16.0.R1

low-packets-offered-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**

Description Include the low packets offered count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

uncoloured-octets-offered-count *boolean*

Context **configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**

Description Include the uncolored octets offered count

Default false

Introduced 16.0.R1

uncoloured-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record queue** *number* **i-counters**
Description	Include the uncolored packets offered count
Default	false
Introduced	16.0.R1

ref-aa-specific-counter

Context	**configure log accounting-policy** *number* **custom-record**
Description	Enter the ref-aa-specific-counter context
Introduced	16.0.R1

any *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-aa-specific-counter**
Description	Report a change to any counter
Default	false
Introduced	16.0.R1

ref-override-counter

Context	**configure log accounting-policy** *number* **custom-record**
Description	Enter the ref-override-counter context
Introduced	16.0.R1

all

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter**
Description	All referenced override counters
Introduced	16.0.R1
Notes	This element is part of a choice

e-counters

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter**
Description	Enter the e-counters context
Introduced	16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the in-profile octets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the in-profile packets discarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

out-profile-octets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the out-profile octets discarded count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the out-profile packets discarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter e-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

i-counters

Context **configure log accounting-policy** *number* **custom-record ref-override-counter**

Description Enter the i-counters context

Introduced 16.0.R1

all-octets-offered-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**

Description Include the all octets offered count

Default false

Introduced 16.0.R1

all-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include all packets offered count
Default	false
Introduced	16.0.R1

high-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the high octets discarded count
Default	false
Introduced	16.0.R1

high-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the high packets discarded count
Default	false
Introduced	16.0.R1

in-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the in-profile octets forwarded count
Default	false
Introduced	16.0.R1

in-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the in-profile packets forwarded count
Default	false
Introduced	16.0.R1

low-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the low octets discarded count
Default	false
Introduced	16.0.R1

low-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the low packets discarded count
Default	false
Introduced	16.0.R1

out-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the out-of-profile octets forwarded count
Default	false
Introduced	16.0.R1

out-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter i-counters**
Description	Include the out-of-profile packets forwarded count
Default	false
Introduced	16.0.R1

id *number*

Context	**configure log accounting-policy** *number* **custom-record ref-override-counter**
Description	Override counter identity
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a choice

ref-queue

Context **configure log accounting-policy** *number* **custom-record**
Description Enter the ref-queue context
Introduced 16.0.R1

all

Context **configure log accounting-policy** *number* **custom-record ref-queue**
Description All referenced queues
Introduced 16.0.R1
Notes This element is part of a choice

e-counters

Context **configure log accounting-policy** *number* **custom-record ref-queue**
Description Enter the e-counters context
Introduced 16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description Include the in-profile octets discarded count
Default false
Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description Include the in-profile octets forwarded count
Default false
Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description	Include the in-profile packets discarded count
Default	false
Introduced	16.0.R1

in-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description	Include the in-profile packets forwarded count
Default	false
Introduced	16.0.R1

out-profile-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description	Include the out-profile octets discarded count
Default	false
Introduced	16.0.R1

out-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description	Include the out-of-profile octets forwarded count
Default	false
Introduced	16.0.R1

out-profile-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description	Include the out-profile packets discarded count
Default	false
Introduced	16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-queue e-counters**
Description Include the out-of-profile packets forwarded count
Default false
Introduced 16.0.R1

i-counters

Context **configure log accounting-policy** *number* **custom-record ref-queue**
Description Enter the i-counters context
Introduced 16.0.R1

all-octets-offered-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description Include the all octets offered count
Default false
Introduced 16.0.R1

all-packets-offered-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description Include all packets offered count
Default false
Introduced 16.0.R1

high-octets-discarded-count *boolean*

Context **configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description Include the high octets discarded count
Default false
Introduced 16.0.R1

high-octets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the high octets offered count
Default	false
Introduced	16.0.R1

high-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the high packets discarded count
Default	false
Introduced	16.0.R1

high-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the high packets offered count
Default	false
Introduced	16.0.R1

in-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the in-profile octets forwarded count
Default	false
Introduced	16.0.R1

in-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the in-profile packets forwarded count
Default	false
Introduced	16.0.R1

low-octets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the low octets discarded count
Default	false
Introduced	16.0.R1

low-octets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the low octets offered count
Default	false
Introduced	16.0.R1

low-packets-discarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the low packets discarded count
Default	false
Introduced	16.0.R1

low-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the low packets offered count
Default	false
Introduced	16.0.R1

out-profile-octets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the out-of-profile octets forwarded count
Default	false
Introduced	16.0.R1

out-profile-packets-forwarded-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the out-of-profile packets forwarded count
Default	false
Introduced	16.0.R1

uncoloured-octets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the uncolored octets offered count
Default	false
Introduced	16.0.R1

uncoloured-packets-offered-count *boolean*

Context	**configure log accounting-policy** *number* **custom-record ref-queue i-counters**
Description	Include the uncolored packets offered count
Default	false
Introduced	16.0.R1

id *string*

Context	**configure log accounting-policy** *number* **custom-record ref-queue**
Description	Queue ID
Reference	configure **log accounting-policy** *number* **custom-record queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

significant-change *number*

Context	**configure log accounting-policy** *number* **custom-record**
Description	Significant change required to generate the record
Range	0 to max
Introduced	16.0.R1

default *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure log accounting-policy** *number*
Description	Default accounting policy for all objects that do not have an accounting policy
Default	false
Introduced	16.0.R1

description *string*

Context	**configure log accounting-policy** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination

Context	**configure log accounting-policy** *number*
Description	Enter the destination context
Introduced	16.0.R1

file *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log accounting-policy** *number* **destination**
Description	Unique file identifier when creating a log or accounting file
Reference	configure **log file** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

null

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log accounting-policy** *number* **destination**
Description	Destination not specified for records of an accounting policy.
Introduced	16.0.R1
Notes	This element is part of a choice

include-system-info *boolean*

Context	**configure log accounting-policy** *number*
Description	Include system information in accounting policy records
Default	false
Introduced	16.0.R1

record *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log accounting-policy** *number*
Description	Accounting record type that is forwarded to configured accounting file
Options	service-ingress-octets, service-egress-octets, service-ingress-packets, service-egress-packets, network-ingress-octets, network-egress-octets, network-ingress-packets, network-egress-packets, compact-service-ingress-octets, combined-service-ingress, combined-network-ing-egr-octets, combined-service-ing-egr-octets, complete-service-ingress-egress, combined-sdp-ingress-egress, complete-sdp-ingress-egress, complete-subscriber-ingress-egress, aa-protocol, aa-application, aa-app-group, aa-subscriber-protocol, aa-subscriber-application, custom-record-subscriber,

custom-record-service, custom-record-aa-sub, queue-group-octets, queue-group-packets, combined-queue-group, combined-mpls-lsp-ingress, combined-mpls-lsp-egress, combined-ldp-lsp-egress, saa, video, aa-performance, complete-ethernet-port, extended-service-ingress-egress, complete-network-ing-egr, aa-partition, complete-pm, aa-admit-deny

Introduced 16.0.R1

app-route-notifications

Context **configure log**

Description Enter the app-route-notifications context

Introduced 16.0.R1

cold-start-wait *number*

Context **configure log app-route-notifications**

Description Time delay before notifying specific CPM applications for available route

Range 1 to 300

Introduced 16.0.R1

route-recovery-wait *number*

Context **configure log app-route-notifications**

Description Time delay before notifying specific CPM applications after route recovery or change

Range 1 to 100

Introduced 16.0.R1

event-damping *boolean*

Context **configure log**

Description Allow event damping algorithm to suppress QoS or filter change events

Default true

Introduced 16.0.R1

event-handling

Context **configure log**

Description Enter the event-handling context

Introduced 16.0.R1

handler [name] *string*

Context	**configure log event-handling**
Description	Enter the handler context
Max. Elements	1500
Introduced	16.0.R1

[name] *string*

Context	**configure log event-handling handler** *string*
Description	File ID to use when creating a log, or accounting file
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-handling handler** *string*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-handling handler** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-handling handler** *string*
Description	Enter the entry context
Max. Elements	1500
Introduced	16.0.R1

[id] *number*

Context	**configure log event-handling handler** *string* **entry** *number*
Description	Index of an event entry in parent EHS Event Handler
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-handling handler** *string* **entry** *number*
Description	Administrative state of EHS event
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-handling handler** *string* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

min-delay *number*

Context	**configure log event-handling handler** *string* **entry** *number*
Description	Minimum delay between subsequent executions of the script policy
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

script-policy

Context	**configure log event-handling handler** *string* **entry** *number*
Description	Enter the script-policy context
Introduced	16.0.R1

name *string*

Context **configure log event-handling handler** *string* **entry** *number* **script-policy**
Description Name combined with value of owner to launch the script policy
Reference configure **system script-control script-policy** *string* **owner** *string*
Introduced 16.0.R1

owner *string*

Context **configure log event-handling handler** *string* **entry** *number* **script-policy**
Description Name combined with value of owner to launch the script policy
Default TiMOS CLI
Reference configure **system script-control script-policy** *string* **owner** *string*
Introduced 16.0.R1

event-trigger

Context **configure log**
Description Enter the event-trigger context
Introduced 16.0.R1

adp event *keyword*

Context **configure log event-trigger**
Description Enter the adp context
Introduced 16.0.R1

event *keyword*

Context **configure log event-trigger adp event** *keyword*
Description Specific log event as a trigger for one or more EHS handlers
Options tmnxDiscoveryEndNotify, tmnxDiscoveryCellularReq
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger adp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger adp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger adp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger adp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger adp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger adp event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger adp event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger adp event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger adp event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context **configure log event-trigger adp event** *keyword* **entry** *number*

Description Log filter for EHS event trigger entry

Reference configure **log filter** *number*

Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger adp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

application-assurance event *keyword*

Context	**configure log event-trigger**
Description	Enter the application-assurance context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger application-assurance event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxBsxIsaAaGrpFailureV2, tmnxBsxIsaAaGrpFailureClearV2, tmnxBsxIsaAaGrpNonRedundantV2, tmnxBsxIsaAaGrpSwitchover, tmnxBsxIsaAaGrpFlowFull, tmnxBsxIsaAaGrpFlowFullClear, tmnxBsxIsaAaSubLoadBalance, tmnxBsxIsaAaGrpCapCostThres, tmnxBsxIsaAaGrpCapCostThresClear, tmnxBsxAaSubscribersUnassigned, tmnxBsxAaSubscriberAcctDataLoss, tmnxBsxAaSubPolResExceeded, tmnxBsxAaSubPolResExceededClear, tmnxBsxIsaAaGrpFlowSetup, tmnxBsxIsaAaGrpFlowSetupClear, tmnxBsxIsaAaGrpPacketRate, tmnxBsxIsaAaGrpPacketRateClear, tmnxBsxIsaAaGrpBitRate, tmnxBsxIsaAaGrpBitRateClear, tmnxBsxTransIpPolAaSubCreated, tmnxBsxTransIpPolAaSubDeleted, tmnxBsxTransIpPolRadCoAAudit, tmnxBsxTransIpPolRadCoAError, tmnxBsxTransIpPolRadDiscError, tmnxBsxTransIpPolDhcpAddWarning, tmnxBsxTransIpPolDhcpDelWarning, tmnxBsxIsaAaGrpFmSbWaSBufOvld, tmnxBsxIsaAaGrpFmSbWaSBufOvldClr, tmnxBsxIsaAaGrpToSbWaSBufOvld, tmnxBsxIsaAaGrpToSbWaSBufOvldClr, tmnxBsxIsaAaGrpOvrldCutthru, tmnxBsxIsaAaGrpOvrldCutthruClr, tmnxBsxTransitIpPersistenceWarn, tmnxBsxAarpInstOperStateChanged, tmnxBsxAarpInstStateChanged, tmnxBsxRadApFailure, tmnxBsxRadApServOperStateChange, tmnxBsxMobileSubModifyFailure, tmnxBsxRadApIntrmUpdateSkipped, tmnxBsxHttpUrlParamLimitExceeded, tmnxBsxUrlFilterOperStateChange, tmnxBsxSubModifyFailure, tmnxBsxDnsIpCacheFull, tmnxBsxDnsIpCacheFullClear, tmnxBsxUrlListUpdate, tmnxBsxUrlListFailure, tmnxBsxIsaAaTimFileProcFailure, tmnxBsxStatTcaThreshCrossed, tmnxBsxStatTcaThreshCrossedClear, tmnxBsxStatPolcrTcaThreshCrossed, tmnxBsxStatPolcrTcaThreshCrClear, tmnxBsxStatFtrTcaThreshCrossed,

tmnxBsxStatFtrTcaThreshCrClear, tmnxBsxStatFtrEnTcaThreshCrossed, tmnxBsxStatFtrEnTcaThreshCrClear, tmnxBsxTransIpPolDiamGxError, tmnxBsxDatapathCpuUsage, tmnxBsxDatapathCpuUsageClear, tmnxBsxTcpValTcaCrossed, tmnxBsxTcpValTcaCrossedClear, tmnxBsxSubQuarantined, tmnxBsxSubQuarantinedClear

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger application-assurance event** *keyword*

Description Administrative state of EHS event

Default disable

Options enable, disable

Introduced 16.0.R1

description *string*

Context **configure log event-trigger application-assurance event** *keyword*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

entry [id] *number*

Context **configure log event-trigger application-assurance event** *keyword*

Description Enter the entry context

Introduced 16.0.R1

[id] *number*

Context **configure log event-trigger application-assurance event** *keyword* **entry** *number*

Description ID of a trigger entry in the parent EHS event trigger

Range 1 to 1500

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger application-assurance event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

aps event *keyword*

Context	**configure log event-trigger**
Description	Enter the aps context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger aps event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	apsEventSwitchover, apsEventModeMismatch, apsEventChannelMismatch, apsEventPSBF, apsEventFEPLF, tApsModeMismatchClear, tApsChannelMismatchClear, tApsPSBFClear, tApsFEPLFClear, tApsLocalSwitchCommandSet, tApsLocalSwitchCommandClear, tApsRemoteSwitchCommandSet, tApsRemoteSwitchCommandClear, tApsMcApsCtlLinkStateChange, tApsChanTxLaisStateChange, tApsPrimaryChannelChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger aps event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger aps event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger aps event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger aps event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger aps event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger aps event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger aps event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger aps event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger aps event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context **configure log event-trigger aps event** *keyword* **entry** *number*
Description Log filter for EHS event trigger entry
Reference configure **log filter** *number*
Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger aps event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

atm event *keyword*

Context	**configure log event-trigger**
Description	Enter the atm context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger atm event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tAtmTcSubLayerDown, tAtmTcSubLayerClear, atmVclStatusChange, atmVplStatusChange, atmVtlStatusChange, atmIfcStatusChange, tAtmPlcpSubLayerDown, tAtmPlcpSubLayerClear, tAtmEpOutOfPeerVpiOrVciRange, tAtmMaxPeerVccsExceeded, tAtmMaxPeerVpcsExceeded, tAtmIlmiLinkStatusChange, atmIlmiPeerVclStatusChange, atmIlmiPeerVplStatusChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger atm event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger atm event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger atm event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger atm event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger atm event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger atm event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger atm event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger atm event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger atm event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger atm event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger atm event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

auto-prov event *keyword*

Context	**configure log event-trigger**
Description	Enter the auto-prov context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger auto-prov event** *keyword*
Description	Events for auto-prov module.
Options	autoNodeProv
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger auto-prov event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger auto-prov event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger auto-prov event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger auto-prov event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

bfd event *keyword*

Context	**configure log event-trigger**
Description	Enter the bfd context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger bfd event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxBfdOnLspSessDown, tmnxBfdOnLspSessUp, tmnxBfdOnLspSessDeleted, tmnxBfdOnLspSessProtChange, tmnxBfdOnLspSessNoCpmNpResources, tmnxBfdOnLspSessNoTailResources
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger bfd event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger bfd event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger bfd event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger bfd event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger bfd event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

bgp event *keyword*

Context	**configure log event-trigger**
Description	Enter the bgp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger bgp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sendNotification, receiveNotification, bgpInterfaceDown, bgpConnNoKA, bgpConnNoOpenRcvd, bgpRejectConnBadLocAddr, bgpRemoteEndClosedConn, bgpPeerNotFound, bgpConnMgrTerminated, bgpTerminated, bgpNoMemoryPeer, bgpVariableRangeViolation, bgpCfgViol, tBgpPeerGRStatusChange, tBgpNgEstablished, tBgpNgBackwardTransition, tBgpPeerNgHoldTimeInconsistent, tBgpFlowspecUnsupportdComAction, tBgp4RouteInvalid, tBgp4PathAttrInvalid, tBgp4WithdrawnRtFromUpdateError, tBgp4UpdateInvalid, tBgpGeneral, tBgpFibResourceFailPeer, tBgpReceivedInvalidNlri, tBgpMaxNgPfxLmt, tBgpMaxNgPfxLmtThresholdReached, tBgpInstanceDynamicPeerLmtReachd, tBgpPGDynamicPeerLmtReached, bgpEstablishedNotification, bgpBackwardTransNotification, tBgp4PathAttrDiscarded, tmnxBmpSessionStatusChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger bgp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger bgp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger bgp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger bgp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger bgp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

calltrace event *keyword*

Context	**configure log event-trigger**
Description	Enter the calltrace context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger calltrace event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxCallTraceMaxFilesNumReached, tmnxCallTraceLocSizeLimitReached, calltraceDebugEvent
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger calltrace event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger calltrace event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger calltrace event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger calltrace event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

cflowd event *keyword*

Context	**configure log event-trigger**
Description	Enter the cflowd context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger cflowd event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxCflowdCreateFailure, tmnxCflowdStateChange, tmnxCflowdFlowCreateFailure, tmnxCflowdPacketTxFailure
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger cflowd event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger cflowd event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger cflowd event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger cflowd event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

chassis event *keyword*

Context	**configure log event-trigger**
Description	Enter the chassis context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger chassis event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxEqCardFailure, tmnxEqCardInserted, tmnxEqCardRemoved, tmnxEqWrongCard, tmnxEnvTempTooHigh, tmnxEqPowerSupplyInserted, tmnxEqPowerSupplyRemoved, tmnxRedPrimaryCPMFail, tmnxChassisNotificationClear, tmnxEqSyncIfTimingHoldover, tmnxEqSyncIfTimingHoldoverClear, tmnxEqSyncIfTimingRef1Alarm, tmnxEqSyncIfTimingRef1AlarmClear, tmnxEqSyncIfTimingRef2Alarm, tmnxEqSyncIfTimingRef2AlarmClear, tmnxEqFlashDataLoss, tmnxEqFlashDiskFull, tmnxPeSoftwareVersionMismatch, tmnxPeSoftwareLoadFailed, tmnxPeBootloaderVersionMismatch, tmnxPeBootromVersionMismatch, tmnxPeFPGAVersionMismatch, tmnxEqSyncIfTimingBITSAlarm, tmnxEqSyncIfTimingBITSAlarmClear, tmnxEqCardFirmwareUpgraded, tmnxChassisUpgradeInProgress, tmnxChassisUpgradeComplete, tmnxChassisHiBwMcastAlarm, tmnxEqMdaCfgNotCompatible, tmnxCpmCardSyncFileNotPresent, tmnxEqMdaXplError, tmnxEqCardPChipError, tmnxEqCardSoftResetAlarm, tmnxEqMdaSyncENotCompatible, tmnxIPsecIsaGrpActiveIsaChgd, tmnxEqCardPChipMemoryEvent, tmnxIPsecIsaGrpUnableToSwitch, tmnxIPsecIsaGrpTnlLowWMark, tmnxIPsecIsaGrpTnlHighWMark, tmnxIPsecIsaGrpTnlMax, tmnxEqSyncIfTimingRef1Quality, tmnxEqSyncIfTimingRef2Quality, tmnxEqSyncIfTimingBITSQuality, tmnxEqSyncIfTimingBITS2Quality, tmnxEqSyncIfTimingRefSwitch, tmnxEqSyncIfTimingBITS2Alarm, tmnxEqSyncIfTimingBITS2AlarmClr, tmnxEqSyncIfTimingBITSOutRefChg, tmnxEqCardPChipCamEvent, tmnxEqSyncIfTimingSystemQuality, tmnxEqHwEnhancedCapability, tmnxEqSyncIfTimingPTPQuality, tmnxEqSyncIfTimingPTPAlarm, tmnxEqSyncIfTimingPTPAlarmClr, tmnxPeFirmwareVersionWarning, tmnxMDAIsaTunnelGroupChange, tmnxEqPowerCapacityExceeded, tmnxEqPowerCapacityExceededClear, tmnxEqPowerLostCapacity, tmnxEqPowerLostCapacityClear, tmnxEqPowerOverloadState, tmnxEqPowerOverloadStateClear, tmnxEqCardQChipBufMemoryEvent, tmnxEqCardQChipStatsMemoryEvent, tmnxEqCardQChipIntMemoryEvent, tmnxEqCardChipIfDownEvent, tmnxEqCardChipIfCellEvent, tmnxEqLowSwitchFabricCap, tmnxEqLowSwitchFabricCapClear, tmnxEqPowerSafetyAlertThreshold, tmnxEqPowerSafetyAlertClear, tmnxEqPowerSafetyLevelThreshold, tmnxEqPowerSafetyLevelClear, tmnxEqCardTChipParityEvent, tmnxEqProvPowerCapacityAlm, tmnxEqProvPowerCapacityAlmClr, tmnxPlcyAcctStatsPoolExcResource, tmnxPlcyAcctStatsPoolLowResource, tmnxPlcyAcctStatsEventOvrflwClr, tmnxPlcyAcctStatsEventOvrflw, tmnxIomResHighLimitReached, tmnxIomResExhausted, tmnxIomResStateClr,

tmnxIomEventOverflow, tmnxIomEventOverflowClr, tmnxEqDataPathFailureProtImpact, tmnxExtStandbyCpmReboot, tmnxExtStandbyCpmRebootFail, tmnxEqMdaIngrXplError, tmnxSyncIfTimBITS2048khzUnsup, tmnxSyncIfTimBITS2048khzUnsupClr, tmnxEqMgmtEthRedStandbyRaise, tmnxEqMgmtEthRedStandbyClear, tmnxEqPhysChassPowerSupOvrTmp, tmnxEqPhysChassPowerSupOvrTmpClr, tmnxEqPhysChassPowerSupAcFail, tmnxEqPhysChassPowerSupAcFailClr, tmnxEqPhysChassPowerSupDcFail, tmnxEqPhysChassPowerSupDcFailClr, tmnxEqPhysChassPowerSupInFail, tmnxEqPhysChassPowerSupInFailClr, tmnxEqPhysChassPowerSupOutFail, tmnxEqPhysChassPowerSupOutFailCl, tmnxEqPhysChassisFanFailure, tmnxEqPhysChassisFanFailureClear, tIPsecIsaMemLowWatermark, tIPsecIsaMemHighWatermark, tIPsecIsaMemMax, tmnxCpmMemSizeMismatch, tmnxCpmMemSizeMismatchClear, tmnxPhysChassPwrSupWrgFanDir, tmnxPhysChassPwrSupWrgFanDirClr, tmnxPhysChassPwrSupPemACRect, tmnxPhysChassPwrSupPemACRectClr, tmnxPhysChassPwrSupInputFeed, tmnxPhysChassPwrSupInputFeedClr, tmnxEqBpEpromFail, tmnxEqBpEpromFailClear, tmnxEqBpEpromWarning, tmnxEqBpEpromWarningClear, tmnxPhysChassisPCMInputFeed, tmnxPhysChassisPCMInputFeedClr, tmnxIPMacQosIngOverload, tmnxIPMacQosIngOverloadClear, tmnxIPQosEgrOverload, tmnxIPQosEgrOverloadClear, tmnxIPv6QosIngOverload, tmnxIPv6QosIngOverloadClear, tmnxIPv6QosEgrOverload, tmnxIPv6QosEgrOverloadClear, tmnxIPMacFilterIngOverload, tmnxIPMacFilterIngOverloadClear, tmnxIPMacFilterEgrOverload, tmnxIPMacFilterEgrOverloadClear, tmnxIPv6FilterIngOverload, tmnxIPv6FilterIngOverloadClear, tmnxIPv6FilterEgrOverload, tmnxIPv6FilterEgrOverloadClear, tmnxIPMacCpmFilterOverload, tmnxIPMacCpmFilterOverloadClear, tmnxIPv6CpmFilterOverload, tmnxIPv6CpmFilterOverloadClear, tmnxBluetoothModuleConnectionChg, tmnxGnssAcquiringFix, tmnxGnssAcquiredFix, tmnxPhysChassisPMOutFail, tmnxPhysChassisPMOutFailClr, tmnxPhysChassisPMInputFeed, tmnxPhysChassisPMInputFeedClr, tmnxPhysChassisFilterDoorOpen, tmnxPhysChassisFilterDoorClosed, tmnxPhysChassisPMOverTemp, tmnxPhysChassisPMOverTempClr, tmnxEqFpgaSoftError, tmnxSasAlarminput1StateChanged, tmnxSasAlarminput2StateChanged, tmnxSasAlarminput3StateChanged, tmnxSasAlarminput4StateChanged, tmnxAlarmInputVoltageFailure, tmnxInterChassisCommsDown, tmnxInterChassisCommsUp, tmnxCpmIcPortDown, tmnxCpmIcPortUp, tmnxCpmIcPortSFFInserted, tmnxCpmIcPortSFFRemoved, tmnxCpmANoLocalIcPort, tmnxCpmBNoLocalIcPort, tmnxCpmALocalIcPortAvail, tmnxCpmBLocalIcPortAvail, CpmIcPortSFFStatusFailure, CpmIcPortSFFStatusDDMCorrupt, CpmIcPortSFFStatusReadError, CpmIcPortSFFStatusUnsupported, tmnxCpmIcPortDDMFailure, tmnxCpmIcPortDDMClear, tmnxSfmIcPortDown, tmnxSfmIcPortUp, tmnxSfmIcPortSFFInserted, tmnxSfmIcPortSFFRemoved, SfmIcPortSFFStatusFailure, SfmIcPortSFFStatusDDMCorrupt, SfmIcPortSFFStatusReadError, SfmIcPortSFFStatusUnsupported,

	tmnxSfmIcPortDDMFailure, tmnxSfmIcPortDDMClear, tmnxSfmIcPortDegraded, tmnxSfmIcPortDegradedClear, tmnxCardResMacFdbHighUsgSet, tmnxCardResMacFdbHighUsgClr, tmnxPowerShelfInputPwrModeSwitch, tmnxPowerShelfCommsDown, tmnxPowerShelfCommsUp, tmnxPowerShelfOutputStatusSwitch
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger chassis event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger chassis event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger chassis event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger chassis event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger chassis event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

debug event *keyword*

Context	**configure log event-trigger**
Description	Enter the debug context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger debug event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	traceEvent
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger debug event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger debug event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger debug event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger debug event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger debug event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger debug event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger debug event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger debug event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger debug event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger debug event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger debug event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

dhcp event *keyword*

Context	**configure log event-trigger**
Description	Enter the dhcp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger dhcp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	svcDHCPLseStateRestoreProblem, sapDHCPLeaseEntriesExceeded, sapDHCPLseStateOverride, sapDHCPSuspiciousPcktRcvd, sapDHCPLseStatePopulateErr, sdpBindDHCPLeaseEntriesExceeded, sdpBindDHCPLseStateOverride, sdpBindDHCPSuspiciousPcktRcvd, sdpBindDHCPLseStatePopulateErr, tmnxVRtrDHCPSuspiciousPcktRcvd, sapStaticHostDynMacConflict, sapDHCPProxyServerError, tmnxVRtrDHCPIfLseStatesExceeded, sdpBindDHCPProxyServerError, tmnxVRtrDHCP6RelayLseStExceeded, tmnxVRtrDHCP6ServerLseStExceeded, tmnxVRtrDHCP6LseStateOverride, tmnxVRtrDHCP6RelayReplyStripUni, tmnxVRtrDHCP6IllegalClientAddr, tmnxVRtrDHCP6AssignedIllegSubnet, tmnxVRtrDHCP6ClientMacUnresolved, sapDHCPLseStateMobilityError, sdpBindDHCPLseStateMobilityErr, svcDHCPMiscellaneousProblem, sapStatHost6DynMacConflict
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger dhcp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger dhcp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger dhcp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger dhcp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

dhcps event *keyword*

Context	**configure log event-trigger**
Description	Enter the dhcps context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger dhcps event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDhcpSvrSubnetMinFreeExc, tmnxDhcpSvrHostConflict, tmnxDhcpSvrPoolUnknown, tmnxDhcpSvrLeaseNotOwner, tmnxDhcpSvrDeclineStaticAddr, tmnxDhcpSvrMsgTooLong, tmnxDhcpsFoStateChange, tmnxDhcpsFoLeaseUpdateFailed, tmnxDhcpSvrUserDbUnknown, tmnxDhcpSvrMaxLeasesReached, tmnxDhcpSvrNoSubnetFixAddr, tmnxDhcpSvrLeaseDefaultTimers, tmnxDhcpSvrPoolMinFreeExc, tmnxDhcpSvrSubnetDepleted, tmnxDhcpSvrPoolDepleted, tmnxDhcpSvrIntLseConflict, tmnxDhcpSvrLeaseModify, tmnxDhcpSvrLeaseCreate, tmnxDhcpSvrLeaseDelete, tmnxLudbDhcpGroupIfTooLong, tmnxLudbPppoeGroupIfTooLong, tmnxDhcpSvrNoContFreeBlocks, tmnxDhcpsPoolFoStateChange, tmnxDhcpsPoolFoLeaseUpdateFailed, tmnxDhcpSvrPlThTooLowV6, tmnxDhcpSvrPlThDepletedV6, tmnxDhcpSvrPfxThTooLowV6, tmnxDhcpSvrPfxThDepletedV6, tmnxDhcpsLeaseOfferedExpired, tmnxDhcpsAddrAllocationFailure, tmnxDhcpsPacketDropped
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger dhcps event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger dhcps event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger dhcps event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger dhcps event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

diameter event *keyword*

Context	**configure log event-trigger**
Description	Enter the diameter context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger diameter event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDiamPolicyPeerStateChange, tmnxDiamAppSessionFailure, tmnxDiamSessionEvent, tmnxDiamPpPrxMcLocStateChanged, tmnxDiamMessageDropped, tmnxDiamNdPeerStatActiveChanged
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger diameter event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger diameter event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger diameter event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger diameter event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger diameter event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger diameter event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger diameter event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger diameter event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger diameter event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context **configure log event-trigger diameter event** *keyword* **entry** *number*

Description Log filter for EHS event trigger entry

Reference configure **log filter** *number*

Introduced 16.0.R1

handler *string*

Context **configure log event-trigger diameter event** *keyword* **entry** *number*
Description Event handler for EHS event trigger entry
Reference configure **log event-handling handler** *string*
Introduced 16.0.R1

dynsvc event *keyword*

Context **configure log event-trigger**
Description Enter the dynsvc context
Introduced 16.0.R1

event *keyword*

Context **configure log event-trigger dynsvc event** *keyword*
Description Specific log event as a trigger for one or more EHS handlers
Options tmnxDynSvcSapFailed
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger dynsvc event** *keyword*
Description Administrative state of EHS event
Default disable
Options enable, disable
Introduced 16.0.R1

description *string*

Context **configure log event-trigger dynsvc event** *keyword*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

entry [id] *number*

Context	**configure log event-trigger dynsvc event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger dynsvc event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

efm-oam event *keyword*

Context	**configure log event-trigger**
Description	Enter the efm-oam context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger efm-oam event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDot3OamPeerChanged, tmnxDot3OamLoopDetected, tmnxDot3OamLoopCleared, dot3OamThresholdEvent, dot3OamNonThresholdEvent, tmnxDot3OamSdThresholdEvent, tmnxDot3OamThresholdEventClr, tmnxDot3OamNonThresholdEventClr
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger efm-oam event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger efm-oam event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger efm-oam event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger efm-oam event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

elmi event *keyword*

Context	**configure log event-trigger**
Description	Enter the elmi context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger elmi event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxElmiIfStatusChangeEvent, tmnxElmiEVCStatusChangeEvent
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger elmi event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger elmi event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger elmi event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger elmi event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger elmi event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ering event *keyword*

Context	**configure log event-trigger**
Description	Enter the ering context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ering event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxEthRingPathFwdStateChange, tmnxEthRingApsPrvsnRaiseAlarm, tmnxEthRingApsPrvsnClearAlarm
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ering event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ering event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ering event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger ering event** *keyword* **entry** *number*

Description ID of a trigger entry in the parent EHS event trigger

Range 1 to 1500

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger ering event** *keyword* **entry** *number*

Description Administrative state of the EHS event trigger entry

Default enable

Options enable, disable

Introduced 16.0.R1

debounce

Context **configure log event-trigger ering event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger ering event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger ering event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context	**configure log event-trigger ering event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ering event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ering event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

eth-cfm event *keyword*

Context	**configure log event-trigger**
Description	Enter the eth-cfm context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger eth-cfm event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	dot1agCfmFaultAlarm, tmnxDot1agCfmMepLbmTestComplete, tmnxDot1agCfmMepLtmTestComplete, tmnxDot1agCfmMepEthTestComplete, tmnxDot1agCfmMepDMTestComplete, tmnxDot1agCfmMepAisStateChanged, tmnxDot1agCfmMipEvaluation, tmnxDot1agCfmMepSLMTestComplete, tmnxDot1agCfmMepCsfStateChanged, tmnxDot1agCfmMepFcltyFaultRaise, tmnxDot1agCfmMepFcltyFaultClear
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger eth-cfm event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger eth-cfm event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger eth-cfm event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger eth-cfm event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger eth-cfm event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger eth-cfm event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger eth-cfm event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger eth-cfm event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger eth-cfm event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context **configure log event-trigger eth-cfm event** *keyword* **entry** *number*
Description Log filter for EHS event trigger entry
Reference configure **log filter** *number*
Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger eth-cfm event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

etun event *keyword*

Context	**configure log event-trigger**
Description	Enter the etun context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger etun event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxEthTunnelApsCfgRaiseAlarm, tmnxEthTunnelApsCfgClearAlarm, tmnxEthTunnelApsPrvsnRaiseAlarm, tmnxEthTunnelApsPrvsnClearAlarm, tmnxEthTunnelApsNoRspRaiseAlarm, tmnxEthTunnelApsNoRspClearAlarm, tmnxEthTunnelApsSwitchoverAlarm
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger etun event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger etun event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger etun event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger etun event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger etun event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger etun event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger etun event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger etun event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger etun event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger etun event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger etun event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

filter event *keyword*

Context	**configure log event-trigger**
Description	Enter the filter context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger filter event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tIPFilterPBRPacketsDrop, tFilterSubInsSpaceAlarmRaised, tFilterSubInsSpaceAlarmCleared, tFilterSubInsFltrEntryDropped, tFilterBgpFlowSpecProblem, tFilterApplyPathProblem, tFilterRadSharedFltrAlarmRaised, tFilterRadSharedFltrAlarmClear, tFilterEmbeddingOperStateChange, tFilterEmbedOpenflowOperStateChg, tFilterOpenflowRequestRejected, tFilterEmbedFlowspecOperStateChg, tFilterEmbedVsdOperStateChg, tFilterRPActiveDestChangeEvent
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger filter event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger filter event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger filter event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger filter event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger filter event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger filter event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger filter event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger filter event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger filter event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger filter event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger filter event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

gmpls event *keyword*

Context	**configure log event-trigger**
Description	Enter the gmpls context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger gmpls event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrGmplsLspPathStateChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger gmpls event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger gmpls event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger gmpls event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger gmpls event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger gmpls event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger gmpls event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger gmpls event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger gmpls event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger gmpls event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context **configure log event-trigger gmpls event** *keyword* **entry** *number*
Description Log filter for EHS event trigger entry
Reference configure **log filter** *number*
Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger gmpls event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

gsmp event *keyword*

Context	**configure log event-trigger**
Description	Enter the gsmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger gsmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxAncpIngRateMonitorEvent, tmnxAncpIngRateMonitorEventL, tmnxAncpEgrRateMonitorEvent, tmnxAncpEgrRateMonitorEventL, tmnxAncpShcvDisabledEvent, tmnxAncpShcvDisabledEventL, tmnxAncpSesRejected, tmnxAncpStringRejected
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger gsmp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger gsmp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger gsmp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger gsmp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

igh event *keyword*

Context	**configure log event-trigger**
Description	Enter the igh context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger igh event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxIfGroupHandlerProtoOprChange, tmnxIfGroupHdlrMbrProtoOprChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger igh event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger igh event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger igh event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger igh event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger igh event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger igh event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger igh event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger igh event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger igh event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger igh event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger igh event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

igmp event *keyword*

Context	**configure log event-trigger**
Description	Enter the igmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger igmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrIgmpIfRxQueryVerMismatch, vRtrIgmpIfCModeRxQueryMismatch, vRtrIgmpMaxGrpsLimitExceeded, vRtrIgmpMcacPlcyDropped, vRtrIgmpHostInstantiationFail, vRtrIgmpHostMaxGrpsLimitExceeded, vRtrIgmpHostMcacPlcyDropped, vRtrIgmpHostCModeRxQueryMismatch, vRtrIgmpHostRxQueryVerMismatch, vRtrIgmpHostMaxSrcsLimitExceeded, vRtrIgmpMaxSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpsLimExceed, vRtrIgmpGrpIfSapMaxSrcsLimExceed, vRtrIgmpGrpIfSapMcacPlcyDropped, vRtrIgmpGrpIfSapCModeRxQueryMism, vRtrIgmpGrpIfSapRxQueryVerMism, vRtrIgmpHostMaxGrpSrcsLimitExcd, vRtrIgmpMaxGrpSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpSrcLimExcd, vRtrIgmpHostQryIntervalConflict, vRtrIgmpNotifyNumOfIPsecIfLowWm, vRtrIgmpNotifyNumOfIPsecIfHighWm, vRtrIgmpNotifyNumOfIPsecIfMaxRch
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger igmp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger igmp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger igmp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger igmp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger igmp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger igmp event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger igmp event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger igmp event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger igmp event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context **configure log event-trigger igmp event** *keyword* **entry** *number*

Description Log filter for EHS event trigger entry

Reference configure **log filter** *number*

Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger igmp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

igmp-snooping event *keyword*

Context	**configure log event-trigger**
Description	Enter the igmp-snooping context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger igmp-snooping event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sapIgmpSnpgGrpLimitExceeded, sapIgmpSnpgMcacPlcyDropped, sdpBndIgmpSnpgGrpLimitExceeded, sdpBndIgmpSnpgMcacPlcyDropped, sapIgmpSnpgMcsFailure, sapIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgGrpSrcLimitExceed, sapIgmpSnpgGrpSrcLimitExceeded, eMplsIgmpSnpgMfibFailure
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger igmp-snooping event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger igmp-snooping event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger igmp-snooping event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger igmp-snooping event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ip event *keyword*

Context	**configure log event-trigger**
Description	Enter the ip context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ip event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	clearRTMError, ipEtherBroadcast, ipDuplicateAddress, ipArpInfoOverwritten, fibAddFailed, qosNetworkPolicyMallocFailed, ipArpBadInterface, ipArpDuplicateIpAddress, ipArpDuplicateMacAddress, ipAnyDuplicateAddress
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ip event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ip event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ip event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger ip event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ip event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger ip event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger ip event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger ip event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ip event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ip event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ip event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ipsec event *keyword*

Context	**configure log event-trigger**
Description	Enter the ipsec context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ipsec event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tIPsecRUTnlFailToCreate, tIPsecRUSAFailToAddRoute, tIPsecBfdIntfSessStateChgd, tIPsecRadAcctPlcyFailure, tIPSecTrustAnchorPrfOprChg, tIPsecTunnelEncapIpMtuTooSmall, tIPsecRuTnlEncapIpMtuTooSmall, tmnxSecNotifCmptedCertHashChngd, tmnxSecNotifCmptedCertChnChngd, tmnxSecNotifSendChnNotInCmptChn, tmnxIPsecTunnelOperStateChange, tmnxIPsecGWOperStateChange, tIPsecRUTnlRemoved
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ipsec event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ipsec event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ipsec event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ipsec event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

isis event *keyword*

Context	**configure log event-trigger**
Description	Enter the isis context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger isis event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrIsisSpbNbrMultAdjExists, vRtrIsisSpbNbrMultAdjExistsClear, vRtrSpbEctFidCfgChg, tmnxIsisDatabaseOverload, tmnxIsisManualAddressDrops, tmnxIsisCorruptedLSPDetected, tmnxIsisMaxSeqExceedAttempt, tmnxIsisIDLenMismatch, tmnxIsisMaxAreaAddrsMismatch, tmnxIsisOwnLSPPurge, tmnxIsisSequenceNumberSkip, tmnxIsisAutTypeFail, tmnxIsisAuthFail, tmnxIsisVersionSkew, tmnxIsisAreaMismatch, tmnxIsisRejectedAdjacency, tmnxIsisLSPTooLargeToPropagate, tmnxIsisOrigLSPBufSizeMismatch, tmnxIsisProtoSuppMismatch, tmnxIsisAdjacencyChange, tmnxIsisCircIdExhausted, tmnxIsisAdjRestartStatusChange, tmnxIsisLdpSyncTimerStarted, tmnxIsisLdpSyncExit, tmnxIsisExportLimitReached, tmnxIsisExportLimitWarning, tmnxIsisRoutesExpLmtDropped, tmnxIsisFailureDisabled, tmnxIsisSidError, tmnxIsisSidNotInLabelRange, tmnxIsisRejectedAdjacencySid, tmnxIsisLSPPurge, tmnxIsisPfxLimitOverloadWarning, tmnxIsisAdjBfdSessionSetupFail, tmnxIsisSrgbBadLabelRange, tmnxIsisCircMtuTooLow, tmnxIsisRejectedAdjacencySet
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger isis event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger isis event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger isis event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger isis event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger isis event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger isis event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger isis event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger isis event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger isis event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger isis event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger isis event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

l2tp event *keyword*

Context	**configure log event-trigger**
Description	Enter the l2tp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger l2tp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxL2tpPeerUnreachable, tmnxL2tpIsaMdaVRtrStateChange, tmnxL2tpLnsSePppSessionFailure, tmnxL2tpTunnelBlacklisted, tmnxL2tpTunnelSelBlacklistFull, tmnxL2tpLnsPppNcpFailure, tmnxL2tpApFailure
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger l2tp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger l2tp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger l2tp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger l2tp event** *keyword* **entry** *number*
Description ID of a trigger entry in the parent EHS event trigger
Range 1 to 1500
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger l2tp event** *keyword* **entry** *number*
Description Administrative state of the EHS event trigger entry
Default enable
Options enable, disable
Introduced 16.0.R1

debounce

Context **configure log event-trigger l2tp event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger l2tp event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger l2tp event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context	**configure log event-trigger l2tp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger l2tp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger l2tp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

lag event *keyword*

Context	**configure log event-trigger**
Description	Enter the lag context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger lag event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	DynamicCostOn, DynamicCostOff, LagPortAddFailed, LagSubGroupSelected, LagPortAddFailureCleared, LagStateEvent, tLagMemberStateEvent, tmnxLagBfdMemStateChanged
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger lag event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger lag event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger lag event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger lag event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger lag event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger lag event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger lag event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger lag event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger lag event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger lag event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger lag event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ldap event *keyword*

Context	**configure log event-trigger**
Description	Enter the ldap context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ldap event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxLdapOperStateChange, tmnxLdapServerOperStateChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ldap event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ldap event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ldap event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger ldap event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ldap event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ldp event *keyword*

Context	**configure log event-trigger**
Description	Enter the ldp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ldp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrLdpStateChange, vRtrLdpGroupIdMismatch, vRtrLdpNgIpv4InstStateChange, vRtrLdpNgIpv6InstStateChange, vRtrLdpNgIfStateChange, vRtrLdpNgInetIfStateChange, vRtrLdpNgTargPeerStateChange, vRtrLdpNgSessionStateChange, vRtrLdpNgSessMaxFecThresChanged, vRtrLdpNgSessMaxFecLimitReached, vRtrLdpNgResourceExhaustion, vRtrLdpNgAddrFecCommMismatch
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ldp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ldp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ldp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger ldp event** *keyword* **entry** *number*
Description ID of a trigger entry in the parent EHS event trigger
Range 1 to 1500
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger ldp event** *keyword* **entry** *number*
Description Administrative state of the EHS event trigger entry
Default enable
Options enable, disable
Introduced 16.0.R1

debounce

Context **configure log event-trigger ldp event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger ldp event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger ldp event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context	**configure log event-trigger ldp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ldp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ldp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

li event *keyword*

Context	**configure log event-trigger**
Description	Enter the li context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger li event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sbiBootLiConfig, sourceEnabled, sourceDisabled, destinationEnabled, destinationDisabled, sourceSapChange, sourceSubscriberChange, tMirrorSourceIPFltrChangeReject, tMirrorSourceMacFltrChangeReject, tMirrorSourceFilterAssignReject, tMirrorDestinationChangeReject, tMirrorSourceFilterOverruled, tMirrorSourceFilterAssignWarn, tMirrorFilterAssignToSapWarn, tMirrorFilterAssignToSdpWarn, tMirrorFilterAssignToItfWarn, tMirrorSourceLiFilterChanged, tMirrorSourceLiSubProblem, tMirrorSourceIPv6FltrChangeRej, tMirrorLiNatLsnSubOperStateCh, tMirrorLiNatL2awSubOperStateCh, tMirrorLiNat64SubOperStateCh, tMirrorLiX2Alarm, cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout,

	ftp_user_login_failed, ftp_user_login_max_attempts, ssh_user_login, ssh_user_logout, ssh_user_login_failed, ssh_user_login_max_attempts, cli_user_io, snmp_user_set, cli_config_io, cli_unauth_user_io, cli_unauth_config_io, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, host_snmp_attempts, radiusFailed, ssiSaveConfigSucceeded, ssiSaveConfigFailed, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, ssiSyncConfigOK, ssiSyncConfigFailed, tmnxClear
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger li event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger li event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger li event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger li event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger li event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger li event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger li event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger li event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger li event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger li event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger li event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

lldp event *keyword*

Context	**configure log event-trigger**
Description	Enter the lldp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger lldp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	lldpRemTablesChange, tmnxLldpRemEntryPeerAdded, tmnxLldpRemEntryPeerUpdated, tmnxLldpRemEntryPeerRemoved, tmnxLldpRemManAddrEntryAdded, tmnxLldpRemManAddrEntryRemoved
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger lldp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger lldp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger lldp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger lldp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger lldp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

lmp event *keyword*

Context	**configure log event-trigger**
Description	Enter the lmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger lmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxLmpVRtrTeLinkPropMismatch, tmnxLmpVRtrTeLinkPropMismatchClr, tmnxLmpVRtrDbLinkPropMismatch, tmnxLmpVRtrDbLinkPropMismatchClr, tmnxLmpVRtrControlChannelState, tmnxLmpVRtrTeLinkState
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger lmp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger lmp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger lmp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger lmp event** *keyword* **entry** *number*
Description ID of a trigger entry in the parent EHS event trigger
Range 1 to 1500
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger lmp event** *keyword* **entry** *number*
Description Administrative state of the EHS event trigger entry
Default enable
Options enable, disable
Introduced 16.0.R1

debounce

Context **configure log event-trigger lmp event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger lmp event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger lmp event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context	**configure log event-trigger lmp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger lmp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger lmp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

logger event *keyword*

Context	**configure log event-trigger**
Description	Enter the logger context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger logger event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	started, tmnxLogTraceError, tmnxLogSpaceContention, tmnxLogAdminLocFailed, tmnxLogBackupLocFailed, tmnxLogFileRollover, tmnxLogFileDeleted, tmnxClear, tmnxTestEvent, tmnxLogEventThrottled, tmnxSysLogTargetProblem, tmnxLogAccountingDataLoss, tmnxStdEventsReplayed, tmnxLogOnlyEventThrottled, tmnxLogEventOverrun, tmnxLogOnlyEventOverrun
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger logger event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger logger event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger logger event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger logger event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger logger event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger logger event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger logger event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger logger event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger logger event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger logger event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger logger event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

macsec event *keyword*

Context	**configure log event-trigger**
Description	Enter the macsec context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger macsec event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxMacsecConfiguredPortCA, tmnxMacsecUnconfiguredPortCA, tmnxMacsecEnabledPort, tmnxMacsecDisabledPort, tmnxMacsecMaxPeerLimitExceeded, tmnxMkaSessionEstablished, tmnxMkaPskRollover, tmnxMkaSessionEnded
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger macsec event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger macsec event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger macsec event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger macsec event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger macsec event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mc-redundancy event *keyword*

Context	**configure log event-trigger**
Description	Enter the mc-redundancy context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mc-redundancy event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxMcRedundancyPeerStateChanged, tmnxMcRedundancyMismatchDetected, tmnxMcRedundancyMismatchResolved, tmnxMcPeerSyncStatusChanged, tmnxMcSyncClientAlarmRaised, tmnxMcSyncClientAlarmCleared, tmnxSrrpSubnetMismatch, tmnxSrrpSubnetMismatchCleared, tmnxSrrpInstanceIdMismatch, tmnxSrrpSapMismatch, tmnxSrrpSapTagMismatch, tmnxSrrpRedIfMismatch, tmnxSrrpDualMaster, tmnxMcLagInfoLagChanged, tmnxSrrpSystemIpNotSet, tmnxMcRingOperStateChanged, tmnxMcRingInbCtrlOperStateChgd, tmnxMcRingNodeLocOperStateChgd, tmnxMcSyncClockSkewRaised, tmnxMcSyncClockSkewCleared, tmnxSrrpDuplicateSubIfAddress, tmnxMcPeerRingsOperStateChanged, tmnxSrrpTrapNewMaster, tmnxSrrpBecameBackup, srrpPacketDiscarded, tmnxSrrpBfdIntfSessStateChgd, tmnxMcPeerEPBfdSessionOpen, tmnxMcPeerEPBfdSessionClose, tmnxMcPeerEPBfdSessionUp, tmnxMcPeerEPBfdSessionDown, tmnxMcPeerEPOperDown, tmnxMcPeerEPOperUp, tmnxMCEPSessionPsvModeEnabled, tmnxMCEPSessionPsvModeDisabled, tMcPeerIPsecTnlGrpMasterStateChg, tMcPeerIPsecTnlGrpProtStatusChg, tmnxMcOmcrStatFailedChanged, tmnxMcOmcrClientNumEntriesHigh, tmnxSrrpOperDownInvalidMac, tmnxSrrpOperDownInvalidMacClear
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mc-redundancy event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mc-redundancy event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mc-redundancy event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mc-redundancy event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mcpath event *keyword*

Context	**configure log event-trigger**
Description	Enter the mcpath context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mcpath event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxMcPathSrcGrpBlkHole, tmnxMcPathSrcGrpBlkHoleClear, tmnxMcPathAvailBwLimitReached, tmnxMcPathAvailBwValWithinRange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mcpath event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mcpath event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mcpath event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mcpath event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mgmt-core event *keyword*

Context	**configure log event-trigger**
Description	Enter the mgmt-core context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mgmt-core event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	none, mdConfigChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mgmt-core event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mgmt-core event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mgmt-core event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mgmt-core event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mirror event *keyword*

Context	**configure log event-trigger**
Description	Enter the mirror context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mirror event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sourceEnabled, sourceDisabled, destinationEnabled, destinationDisabled, sourceIpFilterChange, sourceMacFilterChange, sourceSapChange, sourceSubscriberChange, tMirrorSourceIpv6FilterChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mirror event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mirror event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mirror event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mirror event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mirror event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mld event *keyword*

Context	**configure log event-trigger**
Description	Enter the mld context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mld event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrMldIfRxQueryVerMismatch, vRtrMldIfCModeRxQueryMismatch, vRtrMldMaxGrpsLimitExceeded, vRtrMldMcacPlcyDropped, vRtrMldHostInstantiationFail, vRtrMldHostMaxGrpsLimitExceeded, vRtrMldHostMcacPlcyDropped, vRtrMldHostCModeRxQueryMismatch, vRtrMldHostRxQueryVerMismatch, vRtrMldHostMaxSrcsLimitExceeded, vRtrMldMaxSrcsLimitExceeded,

vRtrMldGrpIfSapMaxGrpsLimExceed, vRtrMldGrpIfSapMaxSrcsLimExceed, vRtrMldGrpIfSapMcacPlcyDropped, vRtrMldGrpIfSapCModeRxQueryMism, vRtrMldGrpIfSapRxQueryVerMism, vRtrMldHostMaxGrpSrcsLimitExcd, vRtrMldMaxGrpSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpSrcLimExcd, vRtrMldHostQryIntervalConflict

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger mld event** *keyword*

Description Administrative state of EHS event

Default disable

Options enable, disable

Introduced 16.0.R1

description *string*

Context **configure log event-trigger mld event** *keyword*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

entry [id] *number*

Context **configure log event-trigger mld event** *keyword*

Description Enter the entry context

Introduced 16.0.R1

[id] *number*

Context **configure log event-trigger mld event** *keyword* **entry** *number*

Description ID of a trigger entry in the parent EHS event trigger

Range 1 to 1500

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mld event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mld event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mld event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mld event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mld event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mld event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mld event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mld-snooping event *keyword*

Context	**configure log event-trigger**
Description	Enter the mld-snooping context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mld-snooping event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sapMldSnpgGrpLimitExceeded, sdpBndMldSnpgGrpLimitExceeded, sapMldSnpgMcsFailure
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mld-snooping event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mld-snooping event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mld-snooping event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mld-snooping event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mpls event *keyword*

Context	**configure log event-trigger**
Description	Enter the mpls context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mpls event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	mplsXCUp, mplsXCDown, mplsTunnelUp, mplsTunnelDown, mplsTunnelRerouted, mplsTunnelReoptimized, vRtrMplsStateChange, vRtrMplsIfStateChange, vRtrMplsLspUp, vRtrMplsLspDown, vRtrMplsLspPathUp, vRtrMplsLspPathDown, vRtrMplsLspPathRerouted, vRtrMplsLspPathResignaled, vRtrMplsP2mpInstanceUp, vRtrMplsP2mpInstanceDown, vRtrMplsS2lSubLspUp, vRtrMplsS2lSubLspDown, vRtrMplsS2lSubLspRerouted, vRtrMplsS2lSubLspResignaled, vRtrMplsLspPathSoftPreempted, vRtrMplsLspPathLstFillReoptElig, vRtrMplsP2mpInstanceResignaled, vRtrMplsResignalTimerExpired, vRtrMplsLspPathMbbStatusEvent, vRtrMplsLspSwitchStbyFailure, vRtrMplsLspActivePathChanged, vRtrMplsXCBundleChange, vRtrMplsNodeInIgpOverload
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mpls event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mpls event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mpls event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mpls event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mpls event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

mpls-tp event *keyword*

Context	**configure log event-trigger**
Description	Enter the mpls-tp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger mpls-tp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrMplsTpLspRevertMismatchAlarm, vRtrMplsTpLspRevertMismatchClear, vRtrMplsTpLspPtTypeMismatchAlarm, vRtrMplsTpLspPtTypeMismatchClear, vRtrMplsTpLspActivePathUp, vRtrMplsTpLspActivePathChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mpls-tp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mpls-tp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger mpls-tp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger mpls-tp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

msdp event *keyword*

Context	**configure log event-trigger**
Description	Enter the msdp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger msdp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	msdpEstablished, msdpBackwardTransition, tmnxMsdpNgActSrcLimExcd, tmnxMsdpNgPeerActSrcLimExcd, tmnxMsdpNgRPFFailure, tmnxMsdpNgSourceSrcActMsgsExcd, tmnxMsdpNgGroupSrcActMsgsExcd
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger msdp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger msdp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger msdp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger msdp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger msdp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

nat event *keyword*

Context	**configure log event-trigger**
Description	Enter the nat context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger nat event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxNatPlL2AwBlockUsageHigh, tmnxNatIsaMemberSessionUsageHigh, tmnxNatPlLsnMemberBlockUsageHigh, tmnxNatL2AwSubIcmpPortUsageHigh, tmnxNatL2AwSubUdpPortUsageHigh, tmnxNatL2AwSubTcpPortUsageHigh, tmnxNatL2AwSubSessionUsageHigh, tmnxNatPlBlockAllocationLsn, tmnxNatPlBlockAllocationL2Aw, tmnxNatResourceProblemDetected, tmnxNatResourceProblemCause, tmnxNatPlAddrFree, tmnxNatPlLsnRedActiveChanged, tmnxNatPcpSrvStateChanged, tmnxNatMdaActive, tmnxNatLsnSubBlksFree, tmnxNatDetPlcyChanged, tmnxNatMdaDetectsLoadSharingErr, tmnxNatIsaGrpOperStateChanged, tmnxNatIsaGrpIsDegraded, tmnxNatLsnSubIcmpPortUsgHigh, tmnxNatLsnSubUdpPortUsgHigh, tmnxNatLsnSubTcpPortUsgHigh, tmnxNatLsnSubSessionUsgHigh, tmnxNatInAddrPrefixBlksFree, tmnxNatFwd2EntryAdded, tmnxNatDetPlcyOperStateChanged, tmnxNatDetMapOperStateChanged, tmnxNatFwd2OperStateChanged, tmnxNatVrtrOutDnatOnlyRoutesHigh, tmnxNatMapRuleChange, tmnxNatMaxNbrSubsOrHostsExceeded, tmnxNatNbrSubsOrHostsBelowThrsh
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger nat event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger nat event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger nat event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger nat event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger nat event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger nat event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger nat event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger nat event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger nat event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger nat event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger nat event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ntp event *keyword*

Context	**configure log event-trigger**
Description	Enter the ntp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ntp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxNtpAuthMismatch, tmnxNtpNoServersAvail, tmnxNtpServersAvail, tmnxNtpOperChange, tmnxNtpServerChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ntp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ntp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ntp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger ntp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ntp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

oam event *keyword*

Context	**configure log event-trigger**
Description	Enter the oam context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger oam event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxOamPingProbeFailedV3, tmnxOamPingTestFailedV3, tmnxOamPingTestCompletedV3, tmnxAncpLoopbackTestCompleted, tmnxAncpLoopbackTestCompletedL, tmnxOamTrPathChange, tmnxOamTrTestFailed, tmnxOamTrTestCompleted, svcIdInvalid, svcIdWrongType, tmnxOamLdpTtraceAutoDiscState, tmnxOamLdpTtraceFecProbeState,

	tmnxOamLdpTtraceFecDisStatus, tmnxOamLdpTtraceFecPFailUpdate, tmnxOamSaaThreshold, tmnxOamDiagTestCompleted, tmnxTwampSrvInactivityTimeout, tmnxTwampSrvMaxConnsExceeded, tmnxTwampSrvPfxMaxConnsExceeded, tmnxTwampSrvMaxSessExceeded, tmnxTwampSrvPfxMaxSessExceeded, tmnxOamPmThrRaise, tmnxOamPmThrClear
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger oam event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger oam event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger oam event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger oam event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger oam event** *keyword* **entry** *number*

Description Administrative state of the EHS event trigger entry

Default enable

Options enable, disable

Introduced 16.0.R1

debounce

Context **configure log event-trigger oam event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger oam event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger oam event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger oam event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context	**configure log event-trigger oam event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger oam event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

openflow event *keyword*

Context	**configure log event-trigger**
Description	Enter the openflow context
Introduced	16.0.R3

event *keyword*

Context	**configure log event-trigger openflow event** *keyword*
Description	Events for openflow module.
Options	tmnxOFFlowEntryInsertFailed
Introduced	16.0.R2
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger openflow event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R2

description *string*

Context	**configure log event-trigger openflow event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R2

entry [id] *number*

Context	**configure log event-trigger openflow event** *keyword*
Description	Enter the entry context
Introduced	16.0.R3

[id] *number*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R2
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R2

debounce

Context	**configure log event-trigger openflow event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R3

time *number*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R2

value *number*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R2

description *string*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R2

filter *string*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R2

handler *string*

Context	**configure log event-trigger openflow event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R2

ospf event *keyword*

Context	**configure log event-trigger**
Description	Enter the ospf context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ospf event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxOspfVirtIfStateChange, tmnxOspfVirtNbrStateChange, tmnxOspfVirtIfConfigError, tmnxOspfVirtIfAuthFailure, tmnxOspfVirtIfRxBadPacket, tmnxOspfVirtIfTxRetransmit, tmnxOspfAreaOriginateLsa, tmnxOspfAreaMaxAgeLsa, tmnxOspfLsdbOverflow, tmnxOspfLsdbApproachingOverflow, tmnxOspfNssaTranslatorStatusChg, tmnxOspfRestartStatusChange, tmnxOspfVirtNbrRestartHlprStsChg, tmnxOspfSpfRunsStopped, tmnxOspfSpfRunsRestarted, tmnxOspfOverloadEntered, tmnxOspfOverloadExited, tmnxOspfAsOriginateLsa, tmnxOspfAsMaxAgeLsa, tmnxOspfShamIfStateChange, tmnxOspfShamNbrStateChange, tmnxOspfShamIfConfigError, tmnxOspfShamIfAuthFailure, tmnxOspfShamIfRxBadPacket, tmnxOspfShamIfTxRetransmit, tmnxOspfShamNbrRestartHlprStsChg, tmnxOspfFailureDisabled, tmnxOspfExportLimitReached, tmnxOspfExportLimitWarning, tmnxOspfRoutesExpLmtDropped, tmnxOspfNgNbrStateChange, tmnxOspfNgIfConfigError, tmnxOspfNgIfAuthFailure, tmnxOspfNgIfRxBadPacket, tmnxOspfNgIfTxRetransmit, tmnxOspfNgIfStateChange, tmnxOspfNgNbrRestartHlprStsChg, tmnxOspfNgLinkOriginateLsa, tmnxOspfNgLinkMaxAgeLsa, tmnxOspfNgLdpSyncTimerStarted, tmnxOspfNgLdpSyncExit, tmnxOspfSrSidError, tmnxOspfSrSidNotInLabelRange, tmnxOspfOverloadWarning, tmnxOspfRejectedAdjacencySid, tmnxOspfAdjBfdSessionSetupFail, tmnxOspfSrgbBadLabelRange, tmnxOspfRejectedAdjacencySet
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ospf event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ospf event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ospf event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger ospf event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ospf event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

pcap event *keyword*

Context	**configure log event-trigger**
Description	Enter the pcap context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger pcap event** *keyword*
Description	Events for PCAP module
Options	tmnxPcapFileError, tmnxPcapBufferFull, tmnxPcapReadWriteFailure, tmnxPcapSoftwareFailure
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pcap event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger pcap event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger pcap event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger pcap event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger pcap event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

pim event *keyword*

Context	**configure log event-trigger**
Description	Enter the pim context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger pim event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrPimNgIfNeighborLoss, vRtrPimNgIfNeighborUp, vRtrPimNgInvalidJoinPrune, vRtrPimNgInvalidRegister, vRtrPimNgGrpInSSMRange, vRtrPimNgBSRStateChange, vRtrPimNgHelloDropped, vRtrPimNgSGLimitExceeded, vRtrPimNgReplicationLmtExceeded, vRtrPimNgMDTLimitExceeded, vRtrPimNgMaxGrpsLimitExceeded, vRtrPimNgDataMtReused, vRtrPimNgMcacPlcyDropped, vRtrPimNgInvalidIPmsiTunnel, vRtrPimNgMaxGraftRetry
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pim event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger pim event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger pim event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger pim event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pim event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger pim event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger pim event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger pim event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger pim event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context **configure log event-trigger pim event** *keyword* **entry** *number*
Description Log filter for EHS event trigger entry
Reference configure **log filter** *number*
Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger pim event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

pim-snooping event *keyword*

Context	**configure log event-trigger**
Description	Enter the pim-snooping context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger pim-snooping event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPimSnpgIfNeighborLoss, tmnxPimSnpgIfNeighborUp, tmnxPimSnpgSGLimitExceeded, tmnxPimSnpgSnoopModeChanged
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pim-snooping event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger pim-snooping event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger pim-snooping event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger pim-snooping event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pim-snooping event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger pim-snooping event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger pim-snooping event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context **configure log event-trigger pim-snooping event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger pim-snooping event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context **configure log event-trigger pim-snooping event** *keyword* **entry** *number*

Description Log filter for EHS event trigger entry

Reference configure **log filter** *number*

Introduced 16.0.R1

handler *string*

Context **configure log event-trigger pim-snooping event** *keyword* **entry** *number*

Description Event handler for EHS event trigger entry

Reference configure **log event-handling handler** *string*

Introduced 16.0.R1

port event *keyword*

Context **configure log event-trigger**

Description Enter the port context

Introduced 16.0.R1

event *keyword*

Context	**configure log event-trigger port event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sonetSDHAlarmSet, sonetSDHAlarmClear, sonetSDHChannelAlarmSet, sonetSDHChannelAlarmClear, SFPInserted, SFPRemoved, SFPStatusFailure, portError, yellowDiffDelayExceeded, redDiffDelayExceeded, bndlBadEndPtDiscriminator, ds3AlarmSet, ds3AlarmClear, ds1AlarmSet, ds1AlarmClear, etherAlarmSet, etherAlarmClear, ds1LoopbackStart, ds1LoopbackStop, ds3LoopbackStart, ds3LoopbackStop, sdhLoopbackStart, sdhLoopbackStop, etherLoopDetected, etherLoopCleared, etherSpeedNotCompatible, etherDuplexNotCompatible, etherIngressRateCfgNotCompatible, digitalDiagnosticMonitorFailed, SFPStatusDDMCorrupt, SFPStatusReadError, SFPStatusUnsupported, dsxClockSyncStateChange, bundleMlfrMemberLoopback, tmnxPortUnsupportedFunction, otuAlarms, wtrkAlarms, tPortAccEgrQGrpHostMatchFailure, tPortEgrVPortHostMatchFailure, digitalDiagnosticMonitorCleared, tmnxEqSonetClockSrcNotCompatible, tmnxEqSonetSfThreshNotCompatible, tmnxEqSonetFramingNotCompatible, tmnxResvCbsPoolThreshGreen, tmnxResvCbsPoolThreshAmber, tmnxResvCbsPoolThreshRed, tmnxEqPortEtherCrcAlarm, tmnxEqPortEtherCrcAlarmClear, tmnxEqPortEtherInternalAlarm, tmnxEqPortEtherInternalAlarmClr, tmnxEqCohOptPortAlarm, tmnxEqPortEtherSymMonAlarm, tmnxEqPortEtherSymMonAlarmClear, SFPStatusCulprit, SFPStatusBlocked, SFPStatusOperational, tmnxRS232ControlLeadSignalChg, tmnxRS232SquelchStatusChange, tmnxRS232SquelchResetIssued, tmnxCellularBearerCreated, tmnxCellularBearerDeleted, tmnxCellularBearerModified, tmnxEqPortEtherEgressRateChange, tmnxCellularNoServiceReset
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger port event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger port event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger port event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger port event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger port event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger port event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger port event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger port event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger port event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger port event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger port event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ppp event *keyword*

Context	**configure log event-trigger**
Description	Enter the ppp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ppp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPppCpUp, tmnxPppCpDown, tmnxPppNcpUp, tmnxPppNcpDown, tmnxPppKeepaliveFailure, tmnxPppLqmFailure, ipcpRemoteIpUnknown, ipcpSameLocalAndRemoteIp, ipcpPeerSuggestedDifferentIp, ipcpPeerRejectedOurIp, ipcpPeerOnDifferentSubnet, tmnxPppLoopback, tmnxPppLoopbackClear, ipv6cpRemoteIntIdUnknown, ipv6cpSameLocalAndRemoteIntId, ipv6cpPeerSuggestedDiffIntId, ipv6cpPeerRejectedOurIntId, ipv6cpPeerOnDifferentSubnet
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ppp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ppp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ppp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger ppp event** *keyword* **entry** *number*
Description ID of a trigger entry in the parent EHS event trigger
Range 1 to 1500
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger ppp event** *keyword* **entry** *number*
Description Administrative state of the EHS event trigger entry
Default enable
Options enable, disable
Introduced 16.0.R1

debounce

Context **configure log event-trigger ppp event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger ppp event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger ppp event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context	**configure log event-trigger ppp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger ppp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ppp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

pppoe event *keyword*

Context	**configure log event-trigger**
Description	Enter the pppoe context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger pppoe event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPppoeSessionFailure, tmnxPppoeNcpFailure, tmnxMlpppBundleIndicatorsChange, tmnxPppoeLacSteeringActive, tmnxPppoeLacSteeringStopped, tmnxPppoeLacSteeringFailed
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pppoe event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger pppoe event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger pppoe event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger pppoe event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pppoe event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger pppoe event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger pppoe event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger pppoe event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger pppoe event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context **configure log event-trigger pppoe event** *keyword* **entry** *number*

Description Log filter for EHS event trigger entry

Reference configure **log filter** *number*

Introduced 16.0.R1

handler *string*

Context **configure log event-trigger pppoe event** *keyword* **entry** *number*
Description Event handler for EHS event trigger entry
Reference configure **log event-handling handler** *string*
Introduced 16.0.R1

pppoe-clnt event *keyword*

Context **configure log event-trigger**
Description Enter the pppoe-clnt context
Introduced 16.0.R1

event *keyword*

Context **configure log event-trigger pppoe-clnt event** *keyword*
Description Specific log event as a trigger for one or more EHS handlers
Options tmnxPppoeClientSetupFailure, tmnxPppoeClientEchoTimeout, tmnxPppoeClientNcpFailure
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger pppoe-clnt event** *keyword*
Description Administrative state of EHS event
Default disable
Options enable, disable
Introduced 16.0.R1

description *string*

Context **configure log event-trigger pppoe-clnt event** *keyword*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

entry [id] *number*

Context	**configure log event-trigger pppoe-clnt event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger pppoe-clnt event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ptp event *keyword*

Context	**configure log event-trigger**
Description	Enter the ptp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger ptp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPtpCardNotSupported, tmnxPtpCardNotSupportedClear, tmnxPtpMasterClockChangedEvent, tmnxPtpClockRecoveryStateChange, tmnxPtpOutOfResources, tmnxPtpOutOfResourcesClear, tmnxPtpDynamicChange, tmnxPtpPortNoTimestamping
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ptp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger ptp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger ptp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger ptp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger ptp event** *keyword* **entry** *number*
Description Administrative state of the EHS event trigger entry
Default enable
Options enable, disable
Introduced 16.0.R1

debounce

Context **configure log event-trigger ptp event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger ptp event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger ptp event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger ptp event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context	**configure log event-trigger ptp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger ptp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

radius event *keyword*

Context	**configure log event-trigger**
Description	Enter the radius context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger radius event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxRadSrvPlcySrvOperStateCh, tmnxRadRouteDownloadFailed, tmnxRadAcctOnOngoing
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger radius event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger radius event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger radius event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger radius event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger radius event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger radius event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger radius event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger radius event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger radius event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger radius event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger radius event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

rip event *keyword*

Context	**configure log event-trigger**
Description	Enter the rip context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger rip event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	ripPacketDiscarded, vRtrRipAuthTypeMismatch, vRtrRipAuthTypeFailure, vRtrRipInstanceShuttingDown, vRtrRipInstanceRestarted, vRtrRipInstanceExpLmtReached, vRtrRipInstanceExpLmtWarning, vRtrRipInstanceRtsExpLmtDropped, vRtrRipPeerBfdDown
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger rip event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger rip event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger rip event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger rip event** *keyword* **entry** *number*

Description ID of a trigger entry in the parent EHS event trigger

Range 1 to 1500

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger rip event** *keyword* **entry** *number*

Description Administrative state of the EHS event trigger entry

Default enable

Options enable, disable

Introduced 16.0.R1

debounce

Context **configure log event-trigger rip event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger rip event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger rip event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context	**configure log event-trigger rip event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger rip event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger rip event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

ripng event *keyword*

Context	**configure log event-trigger**
Description	Enter the ripng context
Introduced	16.0.R3

event *keyword*

Context	**configure log event-trigger ripng event** *keyword*
Description	Events for RIPng module.
Options	tmnxRipNgPacketDiscarded, tmnxRipNgAuthTypeMismatch, tmnxRipNgAuthFailure, tmnxRipNgInstShuttingDown, tmnxRipNgInstRestarted, tmnxRipNgInstExpLmtReached, tmnxRipNgInstExpLmtWarning, tmnxRipNgInstRtsExpLmtDropped, tmnxRipNgIfUcastAddrNotUsed, tmnxRipNgPeerBfdDown
Introduced	16.0.R3
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ripng event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R3

description *string*

Context	**configure log event-trigger ripng event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R3

entry [id] *number*

Context	**configure log event-trigger ripng event** *keyword*
Description	Enter the entry context
Introduced	16.0.R3

[id] *number*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R3
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R3

debounce

Context	**configure log event-trigger ripng event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R3

time *number*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R3

value *number*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R3

description *string*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R3

filter *string*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R3

handler *string*

Context	**configure log event-trigger ripng event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R3

route-policy event *keyword*

Context	**configure log event-trigger**
Description	Enter the route-policy context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger route-policy event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	trigPolicyPrevEval
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger route-policy event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger route-policy event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger route-policy event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger route-policy event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

rpki event *keyword*

Context	**configure log event-trigger**
Description	Enter the rpki context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger rpki event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxRpkiNotifySession, tmnxRpkiStaleTimerExpiry
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger rpki event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger rpki event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger rpki event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger rpki event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger rpki event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

rsvp event *keyword*

Context	**configure log event-trigger**
Description	Enter the rsvp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger rsvp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrRsvpStateChange, vRtrRsvpIfStateChange, vRtrRsvpIfNbrStateUp, vRtrRsvpIfNbrStateDown, vRtrRsvpPEFailOverPriToStdBy, vRtrRsvpPEFailOverStdByToPri
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger rsvp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger rsvp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger rsvp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger rsvp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

satellite event *keyword*

Context	**configure log event-trigger**
Description	Enter the satellite context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger satellite event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxSatelliteOperStateChange, tmnxSatSyncIfTimRefSwitch, tmnxSatSyncIfTimSystemQuality, tmnxSatSyncIfTimRef1Quality, tmnxSatSyncIfTimRef2Quality, tmnxSatSyncIfTimHoldover, tmnxSatSyncIfTimHoldoverClear, tmnxSatSyncIfTimRef1Alarm, tmnxSatSyncIfTimRef1AlarmClear, tmnxSatSyncIfTimRef2Alarm, tmnxSatSyncIfTimRef2AlarmClear, tmnxSatLocalForwardStateChg, tmnxSatLocalForwardSapStateChg
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger satellite event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger satellite event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger satellite event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context **configure log event-trigger satellite event** *keyword* **entry** *number*
Description ID of a trigger entry in the parent EHS event trigger
Range 1 to 1500
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger satellite event** *keyword* **entry** *number*
Description Administrative state of the EHS event trigger entry
Default enable
Options enable, disable
Introduced 16.0.R1

debounce

Context **configure log event-trigger satellite event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger satellite event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger satellite event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context	**configure log event-trigger satellite event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger satellite event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger satellite event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

security event *keyword*

Context	**configure log event-trigger**
Description	Enter the security context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger security event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, ssh_user_login, ssh_user_logout, ssh_user_login_failed, ssh_user_login_max_attempts, radiusOperStatusChange, user_disconnect, radiusSystemIpAddrNotSet, tacplusOperStatusChange, mafEntryMatch, ftp_transfer_successful, ftp_transfer_failed, enable_admin, host_snmp_attempts, SSH_server_preserve_key_fail, tacplusInetSrvrOperStatusChange, radiusInetServerOperStatusChange, tmnxKeyChainAuthFailure, tmnxCpmProtViolPort, tmnxCpmProtViolPortAgg, tmnxCpmProtViolIf, tmnxCpmProtViolSap, tmnxCpmProtViolMac, tmnxCpmProtViolVdoSvcClient, tmnxCpmProtViolVdoVrtrClient, tmnxMD5AuthFailure,

tmnxCpmProtDefPolModified, tmnxCpmProtViolSdpBind, tmnxCpmProtExcdSdpBind, tmnxCpmProtExcdSapEcm, tmnxCpmProtExcdSdpBindEcm, tmnxPkiFileReadFailed, tmnxPkiCertVerificationFailed, tmnxCAProfileStateChange, tmnxCpmProtExcdSapIp, tmnxDcpFpDynPoolUsageHiAlmRaise, tmnxDcpFpDynPoolUsageHiAlmClear, tmnxDcpCardFpEventOvrflwClr, tmnxDcpCardSapEventOvrflwClr, tmnxDcpCardVrtrIfEventOvrflwClr, sapDcpStaticExcd, sapDcpDynamicExcd, sapDcpStaticHoldDownStart, sapDcpDynamicHoldDownStart, sapDcpStaticHoldDownEnd, sapDcpDynamicHoldDownEnd, sapDcpStaticConform, sapDcpDynamicConform, sapDcpLocMonExcd, sapDcpLocMonExcdDynResource, sapDcpLocMonExcdAllDynAlloc, sapDcpLocMonExcdAllDynFreed, sapDcpDynamicEnforceAlloc, sapDcpDynamicEnforceFreed, vRtrIfDcpStaticExcd, vRtrIfDcpDynamicExcd, vRtrIfDcpStaticHoldDownStart, vRtrIfDcpDynamicHoldDownStart, vRtrIfDcpStaticHoldDownEnd, vRtrIfDcpDynamicHoldDownEnd, vRtrIfDcpStaticConform, vRtrIfDcpDynamicConform, vRtrIfDcpLocMonExcd, vRtrIfDcpLocMonExcdDynResource, vRtrIfDcpLocMonExcdAllDynAlloc, vRtrIfDcpLocMonExcdAllDynFreed, vRtrIfDcpDynamicEnforceAlloc, vRtrIfDcpDynamicEnforceFreed, tmnxDcpCardFpEventOvrflw, tmnxDcpCardSapEventOvrflw, tmnxDcpCardVrtrIfEventOvrflw, tmnxPkiCAProfActnStatusChg, tmnxCpmProtViolSapOutProf, tmnxCpmProtViolIfOutProf, sysDNSSecFailedAuthentication, tmnxCpmProtExcdSdpBindIp, tmnxSecComputeCertChainFailure, tmnxCpmProtViolSdpBindOutProf, tmnxSecNotifKeyChainExpired, tmnxSysLicenseInvalid, tmnxSysLicenseExpiresSoon, tmnxPkiCAProfRevokeChkWarning, tmnxCAProfUpDueToRevokeChkCrlOpt, tmnxPkiCertBeforeExpWarning, tmnxPkiCertAfterExpWarning, tmnxPkiCertExpWarningCleared, tmnxPkiCRLBeforeExpWarning, tmnxPkiCRLAfterExpWarning, tmnxPkiCRLExpWarningCleared, tmnxSecNotifFileReloaded, tmnxSysLicenseValid, tmnxSecPwdHistoryFileLoadFailed, tmnxSecPwdHistoryFileWriteFailed, tmnxPkiCAProfCrlUpdateStart, tmnxPkiCAProfCrlUpdateSuccess, tmnxPkiCAProfCrlUpdateUrlFail, tmnxPkiCAProfCrlUpdAllUrlsFail, tmnxPkiFileWriteFailed, tmnxPkiCAProfCrlUpdNoNxtUpdTime, tmnxUsrProfSessionLimitExceeded, tmnxCliGroupSessionLimitExceeded, tmnxPkiCAProfCrlUpdLargPreUpdTm, tmnxPkiCertNotYetValid, tmnxPkiCRLNotYetValid, tmnxAppPkiCertVerificationFailed, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts, tmnxSysLicenseActivated, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, radiusUserProfileInvalid, tmnxSysStandbyLicensingError, tmnxSysStandbyLicensingReady, md_cli_io, md_cli_unauth_io

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger security event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger security event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger security event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger security event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger security event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger security event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger security event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger security event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger security event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context **configure log event-trigger security event** *keyword* **entry** *number*
Description Log filter for EHS event trigger entry
Reference configure **log filter** *number*
Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger security event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

sflow event *keyword*

Context	**configure log event-trigger**
Description	Enter the sflow context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger sflow event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxSflowCpEntrySampling, tmnxSflowPacketTxFailure
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger sflow event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger sflow event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger sflow event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger sflow event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger sflow event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

snmp event *keyword*

Context	**configure log event-trigger**
Description	Enter the snmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger snmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	coldStart, warmStart, authenticationFailure, linkDown, linkUp, risingAlarm, fallingAlarm, snmpdError
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger snmp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger snmp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger snmp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger snmp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger snmp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

stp event *keyword*

Context	**configure log event-trigger**
Description	Enter the stp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger stp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	topologyChangeSapMajorState, newRootSap, topologyChangeVcpState, newRootVcpState, topologyChangeSapState, receivedTCN, newRootBridge, unacknowledgedTCN, higherPriorityBridge, sapEncapPVST, sapEncapDot1d, tmnxSvcTopoChgSdpBindMajorState, tmnxSvcNewRootSdpBind, tmnxSvcTopoChgSdpBindState, tmnxSvcSdpBindRcvdTCN, tmnxSvcSdpBindRcvdHigherBriPrio, tmnxSvcSdpBindEncapPVST, tmnxSvcSdpBindEncapDot1d, tmnxNewCistRegionalRootBridge, tmnxNewMstiRegionalRootBridge, tmnxStpRootGuardViolation, tmnxStpMeshNotInMstRegion, tmnxSapStpExcepCondStateChng, tmnxSdpBndStpExcepCondStateChng, sapActiveProtocolChange, tmnxSvcSdpActiveProtocolChange, vcpActiveProtocolChange, topologyChangePipMajorState, topologyChangePipState, tmnxPipStpExcepCondStateChng, pipActiveProtocolChange
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger stp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger stp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger stp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger stp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger stp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger stp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger stp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger stp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger stp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger stp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context **configure log event-trigger stp event** *keyword* **entry** *number*

Description Event handler for EHS event trigger entry

Reference configure **log event-handling handler** *string*

Introduced 16.0.R1

svcmgr event *keyword*

Context **configure log event-trigger**

Description Enter the svcmgr context

Introduced 16.0.R1

event *keyword*

Context **configure log event-trigger svcmgr event** *keyword*

Description Specific log event as a trigger for one or more EHS handlers

Options svcTlsMacPinningViolation, tmnxSubSlaacOverride, svcEvpnMplsMacMoveExceedNonBlock, svcTlsVxInstReplicatorChgd, svcArpHostOverride, svcEvpnMHEsEviDFStateChgd, svcEvpnMHEsIsidDFStateChgd, svcEvpnRcvdProtSrcMac, svcBgpEvpnBHDupMacAddrsDetected, svcTlsVxlanReplicatorChgd, svcEvpnEtreeBumLabelSysHiUsgSet, svcEvpnEtreeBumLabelSysHiUsgClr, svcVxlanEvpnMplsDestSysHiUsgSet, svcVxlanEvpnMplsDestSysHiUsgClr, svcStatusChanged, svcTlsFdbTableFullAlarmRaised, svcTlsFdbTableFullAlarmCleared, svcSysEvpnESDfPrefOperValChange, tmnxSvcSysFdbTableHighUsgSet, iesIfStatusChanged, tmnxEndPointTxActiveChanged, tmnxSvcSysFdbTableHighUsgClr, svcEvpnMHStandbyStatusChg, svcTlsMrpAttrRegistrationFailed, svcTlsMrpAttrTblFullAlarmRaised, svcTlsMrpAttrTblFullAlarmCleared, svcEpipePbbOperStatusChanged, sapStatusChanged, sapTlsMacAddrLimitAlarmRaised, sapTlsMacAddrLimitAlarmCleared, hostConnectivityLost, hostConnectivityRestored, sapReceivedProtSrcMac, sapTlsMacMoveExceeded, sapPortStateChangeProcessed, sapCemPacketDefectAlarm, sapCemPacketDefectAlarmClear, msapStateChanged, msapCreationFailure, sapTlsMacMoveExceedNonBlock, sapEthLoopbackStarted, sapEthLoopbackStopped, sapTunnelEncapIpMtuTooSmall, tmnxIpTunnelOperStateChange, sapIfIgnorePortStateStart, sapIfIgnorePortStateStop, sdpStatusChanged, sdpBindStatusChanged, sdpKeepAliveStarted, sdpKeepAliveStopped, sdpKeepAliveProbeFailure, sdpKeepAliveLateReply, sdpTlsMacAddrLimitAlarmRaised, sdpTlsMacAddrLimitAlarmCleared, sdpBindPwPeerStatusBitsChanged, sdpBindTlsMacMoveExceeded, sdpBindPwPeerFaultAddrChanged, sdpBindSdpStateChangeProcessed, sdpBandwidthOverbooked, sdpBindInsufficientBandwidth, dynamicSdpConfigChanged, dynamicSdpBindConfigChanged, dynamicSdpCreationFailed, dynamicSdpBindCreationFailed, sdpEgrIfsNetDomInconsCntChanged, sdpBindIpipeCeIpAddressChange, sdpBindReceivedProtSrcMac,

sdpBindPwLocalStatusBitsChanged, sdpBindTlsMacMoveExceedNonBlock, sdpBindEthLoopbackStarted, sdpBindEthLoopbackStopped, sdpPbbActvPwWithNonActvCtrlPwChg, svcBgpEvpnDupMacAddrsDetected, svcBgpEvpnDupMacAddrsCleared, svcTlsDupVTEPEgrVNIDetected, svcTlsDupVTEPEgrVNICleared, svcTlsVTEPHiUsageAlarmRaised, svcTlsVTEPHiUsageAlarmCleared, svcTlsVTEPEgrVniSysHiUsgAlarmSet, svcTlsVTEPEgrVniSysHiUsgAlarmClr, svcTlsVTEPEgrVniSvcHiUsgAlarmSet, svcTlsVTEPEgrVniSvcHiUsgAlarmClr, svcBindSysHiUsageAlarmRaised, svcBindSysHiUsageAlarmCleared, sdpControlPwActiveStateChg, svcTlsProxyArpDupDetect, svcTlsProxyArpDupClear, svcTlsProxyNdDupDetect, svcTlsProxyNdDupClear, svcTlsEvpnTunnNHopHiUsgAlarmSet, svcTlsEvpnTunnNHopHiUsgAlarmClr, svcEvpnMplsTEPHiUsageRaised, svcEvpnMplsTEPHiUsageCleared, svcEvpnMplsTEPEgrBndSysHiUsgSet, svcEvpnMplsTEPEgrBndSysHiUsgClr, svcEvpnMplsTEPEgrBndSvcHiUsgSet, svcEvpnMplsTEPEgrBndSvcHiUsgClr, svcTlsProxyArpSysHiUsgSet, svcTlsProxyArpSysHiUsgClr, svcTlsProxyArpSvcHiUsgSet, svcTlsProxyArpSvcHiUsgClr, svcTlsProxyNdSysHiUsgSet, svcTlsProxyNdSysHiUsgClr, svcTlsProxyNdSvcHiUsgSet, svcTlsProxyNdSvcHiUsgClr, svcSiteMinDnTimerStateChg, svcTlsMfibTableFullAlarmRaised, svcTlsMfibTableFullAlarmCleared, tmnxSubscriberCreated, tmnxSubscriberDeleted, tmnxSubscriberRenamed, tmnxSubAcctPlcyFailure, tmnxSubMcsRelatedProblem, tmnxSubAuthPlcyRadSerOperStatChg, tmnxSubAcctPlcyRadSerOperStatChg, svcEndPointMacLimitAlarmRaised, svcEndPointMacLimitAlarmCleared, tmnxSubRadSapDisconnectError, tmnxSubRadSdpBndDisconnectError, tmnxSubRadSapCoAError, tmnxSubRadSdpBndCoAError, tmnxSubRadSapSubAuthError, tmnxSubRadSdpBndSubAuthError, svcFdbMimDestTblFullAlrm, svcFdbMimDestTblFullAlrmCleared, svcPersistencyProblem, svcArpHostPopulateErr, svcEPMCEPConfigMismatch, svcEPMCEPConfigMismatchResolved, svcEPMCEPPassiveModeActive, svcEPMCEPPassiveModePassive, sapHostBGPPeeringSetupFailed, tmnxSubUserCategoryOutOfCredit, svcRestoreHostProblem, tmnxSubUserCategoryRefreshCredit, tmnxSubUserCategoryError, svcTlsSiteDesigFwdrChg, sapTlsDataSapInstStatusChgd, svcTlsGroupOperStatusChanged, sapTunnelStateChange, tmnxSubHostInconsistentAtmTdOvr, sapAtmPppSessionFailure, sapAtmPppNcpFailure, svcMSPwRtMisconfig, svcOperGrpOperStatusChanged, sapIpipeCeIpAddrChange, svcMSPwRetryExpiredNotif, svcVllSiteDesigFwdrChg, tmnxSubSlaacSetupFailure, tmnxIpTunnelOperRemIpChg, tmnxSubHostLcktLimitReached, tmnxSubHostLcktSapLimitReached, tmnxSubSysChassMemoryUsageHi, tmnxSubVSubnetHostsDeleted, sapHostRipListenerSetupFailed, tmnxSubIpoeInvalidSessionKey, tmnxSubIpoeInvalidCidRidChange, tmnxSubIpoeSessionLimitReached, tmnxSubIpoePersistenceRecovery, tmnxSubIpoeMigrHostDeleted, tmnxSubMngdHostCreationFail, tmnxSubMngdHostOverride, tmnxSubHostInfoConflict, tmnxSubPlBndFailed, tmnxSubBrgCreated, tmnxSubBrgDeleted, tmnxSubBrgCvInitFailed, tmnxSubBrgRadiusUpdateIpoeSeFail, tmnxSubBrgRadiusCoaError, tmnxSubBrgRadiusAuthError, tmnxSubBrgSessionLimitReached,

	tmnxSubStatsResourceLimitReached, tmnxSubDhcpOverloadDetected, aluIpTransportStateChanged, tmnxSubBrgRadiusProxyAuthError, tmnxSubIpoeSessionBrgNotAuth, tmnxSubRadiusCoaNatFwdFailed, tmnxSubSVlanStatsReachedMaximum, svcTlsVxInstMacAdrLimitAlrmRsd, svcTlsVxInstMacAdrLimitAlrmClrd
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger svcmgr event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger svcmgr event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger svcmgr event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger svcmgr event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

system event *keyword*

Context	**configure log event-trigger**
Description	Enter the system context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger system event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	stiDateAndTimeChanged, ssiSaveConfigSucceeded, ssiSaveConfigFailed, sbiBootConfig, sbiBootSnmpd, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, tmnxModuleMallocFailed, tmnxTrapDropped, ssiSyncConfigOK, ssiSyncConfigFailed, ssiSyncBootEnvOK, ssiSyncBootEnvFailed, socket_bind_failed, socket_conn_accept_failed, sntpTimeDiffExceedsThreshold, tmnxSssiMismatch, tmnxSnmpdStateChange, tmnxRedStandbySyncing, tmnxRedStandbyReady, tmnxRedStandbySyncLost, tmnxRedSwitchover, tmnxRedCpmActive, tmnxRedSingleCpm, persistencyClosedAlarmRaised, persistencyClosedAlarmCleared, tmnxSntpOperChange, tmnxFtpClientFailure, persistencyEventReport, sbiBootConfigFailFileError, sbiBootConfigOKFileError, persistenceRestoreProblem, tmnxSysRollbackStarted, tmnxSysRollbackStatusChange, tmnxSysRollbackSaveStatusChange, tmnxSysRollbackFileDeleteStatus, ssiSyncRollbackOK, ssiSyncRollbackFailed, ssiSyncCertOK, ssiSyncCertFailed, persistencyFileSysThresRaised, persistencyFileSysThresCleared, tmnxSysExecStarted, tmnxSysExecFinished, tmnxSysRollbackSaveStarted, tmnxSysRollbackDeleteStarted, tmnxSysNvsysFileError, tmnxConfigConflict, tmnxSysVsdServerAvailable, tmnxSysVsdServerUnavailable, tmnxSysXmppServerFunctional, tmnxSysXmppServerNotFunctional,

tmnxSysBaseMacAddressNotSet, tmnxSmLaunchStartFailed, tmnxEhsHandlerInvoked, tmnxEhsDroppedByMinDelay, tmnxSysAppStats24HrsAvailable, tmnxSysAppStatsWeekAvailable, tmnxSysMgmtIfModeChangeStart, tmnxSysMgmtIfModeChangeComplete, tmnxSysMgmtIfModeChangeFailure, schedActionFailure, smScriptAbort, smScriptResult, smScriptException

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger system event** *keyword*

Description Administrative state of EHS event

Default disable

Options enable, disable

Introduced 16.0.R1

description *string*

Context **configure log event-trigger system event** *keyword*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

entry [id] *number*

Context **configure log event-trigger system event** *keyword*

Description Enter the entry context

Introduced 16.0.R1

[id] *number*

Context **configure log event-trigger system event** *keyword* **entry** *number*

Description ID of a trigger entry in the parent EHS event trigger

Range 1 to 1500

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure log event-trigger system event** *keyword* **entry** *number*

Description Administrative state of the EHS event trigger entry

Default enable

Options enable, disable

Introduced 16.0.R1

debounce

Context **configure log event-trigger system event** *keyword* **entry** *number*

Description Enter the debounce context

Introduced 16.0.R1

time *number*

Context **configure log event-trigger system event** *keyword* **entry** *number* **debounce**

Description Time within which specific event must occur for EHS to trigger response

Range 1 to 604800

Units seconds

Introduced 16.0.R1

value *number*

Context **configure log event-trigger system event** *keyword* **entry** *number* **debounce**

Description Number of event occurrences within specific time for EHS to trigger response

Range 2 to 15

Introduced 16.0.R1

description *string*

Context **configure log event-trigger system event** *keyword* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

filter *string*

Context	**configure log event-trigger system event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger system event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

user event *keyword*

Context	**configure log event-trigger**
Description	Enter the user context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger user event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, cli_user_io, snmp_user_set, cli_config_io, cli_unauth_user_io, cli_unauth_config_io, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger user event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger user event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger user event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger user event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger user event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context **configure log event-trigger user event** *keyword* **entry** *number*
Description Enter the debounce context
Introduced 16.0.R1

time *number*

Context **configure log event-trigger user event** *keyword* **entry** *number* **debounce**
Description Time within which specific event must occur for EHS to trigger response
Range 1 to 604800
Units seconds
Introduced 16.0.R1

value *number*

Context **configure log event-trigger user event** *keyword* **entry** *number* **debounce**
Description Number of event occurrences within specific time for EHS to trigger response
Range 2 to 15
Introduced 16.0.R1

description *string*

Context **configure log event-trigger user event** *keyword* **entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

filter *string*

Context **configure log event-trigger user event** *keyword* **entry** *number*
Description Log filter for EHS event trigger entry
Reference configure **log filter** *number*
Introduced 16.0.R1

handler *string*

Context	**configure log event-trigger user event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

video event *keyword*

Context	**configure log event-trigger**
Description	Enter the video context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger video event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxVdoDuplicateSsrcId, tmnxVdoMdaSessionsLimitExceeded, tmnxVdoMdaSGLimitExceeded, tmnxVdoMdaSessionsLimitCleared, tmnxVdoMdaSGLimitCleared, tmnxVdoAdSpliceAbort, tmnxVdoClientSessionsLmtExceeded, tmnxVdoClientSessionsLmtCleared, tmnxVdoGrpSrcAnlyzrErrState, tmnxVdoGrpSrcAnlyzrStClear, tmnxVdoMdaFccBwLimitExceeded, tmnxVdoMdaFccBwLimitCleared, tmnxVdoMdaRetBwLimitExceeded, tmnxVdoMdaRetBwLimitCleared, tmnxVdoMdaFccRetTotBwLmtExceeded, tmnxVdoMdaFccRetTotBwLmtCleared, tmnxVdoMdaFccSesLimitExceeded, tmnxVdoMdaFccSesLimitCleared, tmnxVdoMdaRetSesLimitExceeded, tmnxVdoMdaRetSesLimitCleared, tmnxVdoMdaFccRetTotSeLmtExceeded, tmnxVdoMdaFccRetTotSeLmtCleared
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger video event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger video event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger video event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger video event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger video event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger video event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger video event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger video event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger video event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger video event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger video event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

vrrp event *keyword*

Context	**configure log event-trigger**
Description	Enter the vrrp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger vrrp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vrrpTrapNewMaster, vrrpTrapAuthFailure, tmnxVrrpIPListMismatch, tmnxVrrpIPListMismatchClear, tmnxVrrpMultipleOwners, tmnxVrrpBecameBackup, vrrpPacketDiscarded, tmnxVrrpBfdIntfSessStateChgd, vrrpTrapProtoError, tVrrpBecameBackup, tVrrpTrapNewMaster, tVrrpIPListMismatch, tVrrpIPListMismatchClear, tVrrpMultipleOwners, tVrrpPacketDiscarded, tVrrpRouterAdvNotActivated, tVrrpRouterAdvNotActivatedClear, tVrrpOperDownInvalidMac, tVrrpOperDownInvalidMacClear, tmnxVrrpOperDownInvalidMac, tmnxVrrpOperDownInvalidMacClear
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger vrrp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger vrrp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger vrrp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger vrrp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

vrtr event *keyword*

Context	**configure log event-trigger**
Description	Enter the vrtr context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger vrtr event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxVRtrMidRouteTCA, tmnxVRtrHighRouteTCA, tmnxVRtrHighRouteCleared, tmnxVRtrMcastMidRouteTCA, tmnxVRtrMcastMaxRoutesTCA, tmnxVRtrMcastMaxRoutesCleared, tmnxVRtrMaxArpEntriesTCA, tmnxVRtrMaxArpEntriesCleared, tmnxVRtrMaxRoutes, tmnxVRtrBfdMaxSessionOnSlot, tmnxVRtrBfdPortTypeNotSupported, tmnxVRtrIPv6MidRouteTCA, tmnxVRtrIPv6HighRouteTCA, tmnxVRtrIPv6HighRouteCleared, tmnxVRtrStaticRouteCPEStatus, tmnxVRtrManagedRouteAddFailed, tmnxVRtrFibOccupancyThreshold, tmnxVRtrInetAddressAttachFailed, tmnxVRtrSingleSfmOverloadStateCh, tmnxVRtrGrtExportLimitReached, tmnxVRtrGrtRoutesExpLimitDropped, tmnxVRtrIfLdpSyncTimerStart, tmnxVRtrIfLdpSyncTimerStop, tmnxVRtrGrtV6ExportLimitReached, tmnxVRtrGrtV6RoutesExpLimDropped, tmnxVRtrStaticRouteStatusChanged, tmnxVRtrBfdSessExtDown, tmnxVRtrBfdSessExtUp, tmnxVRtrBfdSessExtDeleted, tmnxVRtrBfdSessExtProtChange, tmnxVRtrBfdExtNoCpmNpResources, tmnxVRtrDnsFault, tmnxVRtrMacAcctLimitReached, tmnxVRtrMacAcctLimitCleared, tmnxVRtrNgBfdSessDown, tmnxVRtrNgBfdSessUp, tmnxVRtrNgBfdSessDeleted, tmnxVRtrNgBfdSessProtChange, tmnxVRtrNgBfdNoCpmNpResources, tmnxVRtrNHRvplsARPHighUsage, tmnxVRtrNHRvplsARPExhaust, tmnxVRtrNHRvplsARPHighUsageClr, tmnxVRtrArpLmt, tmnxVRtrArpThresholdExceeded, tmnxVRtrIpv6NbrLmt, tmnxVRtrIpv6NbrThresholdExceeded, tmnxVRtrIfIgnorePortState, tmnxVRtrPdnAddrMismatch, tmnxVRtrPdnAddrMismatchCleared, tmnxVRtrLeakExportLimitReached, tmnxVRtrLeakExportLimitDropped
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger vrtr event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger vrtr event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger vrtr event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger vrtr event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

wlan-gw event *keyword*

Context	**configure log event-trigger**
Description	Enter the wlan-gw context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger wlan-gw event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxWlanGwResrcProblemDetected, tmnxWlanGwResrcProblemCause, tmnxWlanGwTuQosProblem, tmnxWlanGwGrpOperStateChanged, tmnxWlanGwIomActive, tmnxWlanGwMgwConnected, tmnxWlanGwMgwRestarted, tmnxWlanGwNumMgwHi, tmnxWlanGwMgwStateChanged, tmnxWlanGwQosRadiusGtpMismatch, tmnxWlanGwSubIfRedActiveChanged, tmnxWlanGwDsmGtpTunnelSetupFail, tmnxWlanGwSubIfPmStartD6cFailed, tmnxWlanGwSubIfPmNewPlReqFailed, tmnxWlanGwSubIfPmAddNewPlFailed, tmnxWlanGwSubIfPmCrIntObjFailed, tmnxWlanGwSubIfPmPoolTimeout, tmnxWlanGwSubIfPmPoolUsageLow, tmnxWlanGwSubIfPmLsQryRtryFailed, tmnxWlanGwGtpMessageDropped, tmnxWlanGwSubIfPmPoolPartialUse, tmnxWlanGwBdCreated, tmnxWlanGwBdDeleted, tmnxWlanGwUeCreationFail, tmnxWlanGwUeReplacement, tmnxWlanGwGrpMemberUsageHigh
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger wlan-gw event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger wlan-gw event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger wlan-gw event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger wlan-gw event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

wpp event *keyword*

Context	**configure log event-trigger**
Description	Enter the wpp context
Introduced	16.0.R1

event *keyword*

Context	**configure log event-trigger wpp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxWppPortalStatChanged, tmnxWppHostAuthenticationFailed, tmnxWppPortalUnreachable, tmnxWppPortalGroupStatChanged
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger wpp event** *keyword*
Description	Administrative state of EHS event
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger wpp event** *keyword*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure log event-trigger wpp event** *keyword*
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number*
Description	ID of a trigger entry in the parent EHS event trigger
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number*
Description	Administrative state of the EHS event trigger entry
Default	enable
Options	enable, disable
Introduced	16.0.R1

debounce

Context	**configure log event-trigger wpp event** *keyword* **entry** *number*
Description	Enter the debounce context
Introduced	16.0.R1

time *number*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number* **debounce**
Description	Time within which specific event must occur for EHS to trigger response
Range	1 to 604800
Units	seconds
Introduced	16.0.R1

value *number*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number* **debounce**
Description	Number of event occurrences within specific time for EHS to trigger response
Range	2 to 15
Introduced	16.0.R1

description *string*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

filter *string*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number*
Description	Log filter for EHS event trigger entry
Reference	configure **log filter** *number*
Introduced	16.0.R1

handler *string*

Context	**configure log event-trigger wpp event** *keyword* **entry** *number*
Description	Event handler for EHS event trigger entry
Reference	configure **log event-handling handler** *string*
Introduced	16.0.R1

file [file-id] *number*

Context	**configure log**
Description	Enter the file context
Introduced	16.0.R1

[file-id] *number*

Context	**configure log file** *number*
Description	File ID when creating a log or accounting file
Range	1 to 99
Introduced	16.0.R1
Notes	This element is part of a list key

compact-flash-location

Context	**configure log file** *number*
Description	Enter the compact-flash-location context
Introduced	16.0.R1

backup *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log file** *number* **compact-flash-location**
Description	Log file location
Default	cf-unspecified
Options	cf-unspecified, cf1, cf2, cf3, cf4
Introduced	16.0.R1

primary *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log file** *number* **compact-flash-location**
Description	Log file location
Default	cf-unspecified
Options	cf-unspecified, cf1, cf2, cf3, cf4
Introduced	16.0.R1

description *string*

Context	**configure log file** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

retention *number*

Context	**configure log file** *number*
Description	Minimum time that a file is retained on the media
Range	1 to 500
Default	12
Units	hours
Introduced	16.0.R1

rollover *number*

Context	**configure log file** *number*
Description	Frequency at which a new log or accounting file is created
Range	5 to 10080
Default	1440
Units	minutes
Introduced	16.0.R1

filter [filter-id] *number*

Context	**configure log**
Description	Enter the filter context
Introduced	16.0.R1

[filter-id] *number*

Context	**configure log filter** *number*
Description	Identification number for an event log filter
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

default-action *keyword*

Context	**configure log filter** *number*
Description	Default action for the event filter
Options	drop, forward
Introduced	16.0.R1

description *string*

Context	**configure log filter** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure log filter** *number*
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure log filter** *number* **entry** *number*
Description	Identification number for an event log filter parameter
Range	1 to 999
Introduced	16.0.R1
Notes	This element is part of a list key

action *keyword*

Context	**configure log filter** *number* **entry** *number*
Description	Action for this event filter entry
Options	drop, forward
Introduced	16.0.R1

description *string*

Context	**configure log filter** *number* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context	**configure log filter** *number* **entry** *number*
Description	Enter the match context
Introduced	16.0.R1

application

Context	**configure log filter** *number* **entry** *number* **match**
Description	Enter the application context
Introduced	16.0.R1

eq *keyword*

Context	**configure log filter** *number* **entry** *number* **match application**
Description	Application to match
Options	application-assurance, aps, atm, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igh, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, ppp, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, ripng, openflow, sflow, rpki, gmpls, lmp, calltrace, satellite, ldap, pppoe-clnt, adp, mgmt-core, macsec, pcap, mobile-gateway, mobile-pdn, mobile-pdn-cups, mobile-profile, mobile-profile-cups, mobile-serving, auto-prov
Introduced	16.0.R1
Notes	This element is part of a choice

neq *keyword*

Context	**configure log filter** *number* **entry** *number* **match application**
Description	Application to be filtered out
Options	application-assurance, aps, atm, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igh, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, ppp, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, ripng, openflow, sflow, rpki, gmpls, lmp, calltrace, satellite, ldap, pppoe-clnt, adp, mgmt-core, macsec, pcap, mobile-gateway, mobile-pdn, mobile-pdn-cups, mobile-profile, mobile-profile-cups, mobile-serving, auto-prov
Introduced	16.0.R1
Notes	This element is part of a choice

event

Context	**configure log filter** *number* **entry** *number* **match**
Description	Enter the event context
Introduced	16.0.R1

eq *number*

Context	**configure log filter** *number* **entry** *number* **match event**
Description	Log event message to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

gte *number*

Context	**configure log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

lte *number*

Context	**configure log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

neq *number*

Context	**configure log filter** *number* **entry** *number* **match event**
Description	Log event message to filter out
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

message

Context	**configure log filter** *number* **entry** *number* **match**
Description	Enter the message context
Introduced	16.0.R1

eq *string*

Context	**configure log filter** *number* **entry** *number* **match message**
Description	Log event message to match
String Length	1 to 400
Introduced	16.0.R1
Notes	This element is part of a choice

neq *string*

Context	**configure log filter** *number* **entry** *number* **match message**
Description	Log event message to be filtered out
String Length	1 to 400
Introduced	16.0.R1
Notes	This element is part of a choice

regexp *boolean*

Context	**configure log filter** *number* **entry** *number* **match message**
Description	String comparison to determine if the log event matches the value of pattern
Default	false
Introduced	16.0.R1

severity

Context	**configure log filter** *number* **entry** *number* **match**
Description	Enter the severity context
Introduced	16.0.R1

eq *keyword*

Context	**configure log filter** *number* **entry** *number* **match severity**
Description	Log event severity level to match
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1
Notes	This element is part of a choice

gt *keyword*

Context	**configure log filter** *number* **entry** *number* **match severity**
Description	Log event severity level
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1
Notes	This element is part of a choice

gte *keyword*

Context	**configure log filter** *number* **entry** *number* **match severity**
Description	Log event severity level
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1
Notes	This element is part of a choice

lt *keyword*

Context	**configure log filter** *number* **entry** *number* **match severity**
Description	Log event severity level
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1
Notes	This element is part of a choice

lte *keyword*

Context	**configure log filter** *number* **entry** *number* **match severity**
Description	Log event severity level
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1
Notes	This element is part of a choice

neq *keyword*

Context	**configure log filter** *number* **entry** *number* **match severity**
Description	Log event severity level to filter out
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1
Notes	This element is part of a choice

subject

Context	**configure log filter** *number* **entry** *number* **match**
Description	Enter the subject context
Introduced	16.0.R1

eq *string*

Context	**configure log filter** *number* **entry** *number* **match subject**
Description	Log event subject string to match
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

neq *string*

Context	**configure log filter** *number* **entry** *number* **match subject**
Description	Log event subject string to filter out
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

regexp *boolean*

Context	**configure log filter** *number* **entry** *number* **match subject**
Description	String comparison to determine if the log event matches the value of subject
Default	false
Introduced	16.0.R1

vrtr-name

Context	**configure log filter** *number* **entry** *number* **match**
Description	Enter the vrtr-name context
Introduced	16.0.R3

eq *string*

Context	**configure log filter** *number* **entry** *number* **match vrtr-name**
Description	Specifies the log event router context name to be matched.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a choice

neq *string*

Context	**configure log filter** *number* **entry** *number* **match vrtr-name**
Description	Specifies the log event router context name to be filtered out.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a choice

regexp *boolean*

Context	**configure log filter** *number* **entry** *number* **match vrtr-name**
Description	String comparison to determine if the log event matches the value of router instance
Default	false
Introduced	16.0.R3

log-events

Context	**configure log**
Description	Enter the log-events context
Introduced	16.0.R1

adp event *keyword*

Context	**configure log log-events**
Description	Enter the adp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events adp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDiscoveryEndNotify, tmnxDiscoveryCellularReq
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events adp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events adp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events adp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events adp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events adp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events adp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events adp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

application-assurance event *keyword*

Context	**configure log log-events**
Description	Enter the application-assurance context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events application-assurance event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxBsxIsaAaGrpFailureV2, tmnxBsxIsaAaGrpFailureClearV2, tmnxBsxIsaAaGrpNonRedundantV2, tmnxBsxIsaAaGrpSwitchover, tmnxBsxIsaAaGrpFlowFull, tmnxBsxIsaAaGrpFlowFullClear, tmnxBsxIsaAaSubLoadBalance, tmnxBsxIsaAaGrpCapCostThres, tmnxBsxIsaAaGrpCapCostThresClear, tmnxBsxAaSubscribersUnassigned, tmnxBsxAaSubscriberAcctDataLoss, tmnxBsxAaSubPolResExceeded, tmnxBsxAaSubPolResExceededClear, tmnxBsxIsaAaGrpFlowSetup, tmnxBsxIsaAaGrpFlowSetupClear, tmnxBsxIsaAaGrpPacketRate, tmnxBsxIsaAaGrpPacketRateClear, tmnxBsxIsaAaGrpBitRate, tmnxBsxIsaAaGrpBitRateClear, tmnxBsxTransIpPolAaSubCreated, tmnxBsxTransIpPolAaSubDeleted, tmnxBsxTransIpPolRadCoAAudit, tmnxBsxTransIpPolRadCoAError, tmnxBsxTransIpPolRadDiscError, tmnxBsxTransIpPolDhcpAddWarning, tmnxBsxTransIpPolDhcpDelWarning, tmnxBsxIsaAaGrpFmSbWaSBufOvld, tmnxBsxIsaAaGrpFmSbWaSBufOvldClr, tmnxBsxIsaAaGrpToSbWaSBufOvld, tmnxBsxIsaAaGrpToSbWaSBufOvldClr, tmnxBsxIsaAaGrpOvrldCutthru, tmnxBsxIsaAaGrpOvrldCutthruClr, tmnxBsxTransitIpPersistenceWarn, tmnxBsxAarpInstOperStateChanged, tmnxBsxAarpInstStateChanged, tmnxBsxRadApFailure, tmnxBsxRadApServOperStateChange, tmnxBsxMobileSubModifyFailure, tmnxBsxRadApIntrmUpdateSkipped, tmnxBsxHttpUrlParamLimitExceeded, tmnxBsxUrlFilterOperStateChange, tmnxBsxSubModifyFailure, tmnxBsxDnsIpCacheFull, tmnxBsxDnsIpCacheFullClear, tmnxBsxUrlListUpdate, tmnxBsxUrlListFailure, tmnxBsxIsaAaTimFileProcFailure, tmnxBsxStatTcaThreshCrossed, tmnxBsxStatTcaThreshCrossedClear, tmnxBsxStatPolcrTcaThreshCrossed, tmnxBsxStatPolcrTcaThreshCrClear, tmnxBsxStatFtrTcaThreshCrossed,

	tmnxBsxStatFtrTcaThreshCrClear, tmnxBsxStatFtrEnTcaThreshCrossed, tmnxBsxStatFtrEnTcaThreshCrClear, tmnxBsxTransIpPolDiamGxError, tmnxBsxDatapathCpuUsage, tmnxBsxDatapathCpuUsageClear, tmnxBsxTcpValTcaCrossed, tmnxBsxTcpValTcaCrossedClear, tmnxBsxSubQuarantined, tmnxBsxSubQuarantinedClear
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events application-assurance event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events application-assurance event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events application-assurance event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events application-assurance event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events application-assurance event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events application-assurance event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events application-assurance event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

aps event *keyword*

Context	**configure log log-events**
Description	Enter the aps context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events aps event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	apsEventSwitchover, apsEventModeMismatch, apsEventChannelMismatch, apsEventPSBF, apsEventFEPLF, tApsModeMismatchClear, tApsChannelMismatchClear, tApsPSBFClear, tApsFEPLFClear, tApsLocalSwitchCommandSet, tApsLocalSwitchCommandClear, tApsRemoteSwitchCommandSet, tApsRemoteSwitchCommandClear, tApsMcApsCtlLinkStateChange, tApsChanTxLaisStateChange, tApsPrimaryChannelChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events aps event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events aps event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events aps event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events aps event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events aps event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events aps event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events aps event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

atm event *keyword*

Context	**configure log log-events**
Description	Enter the atm context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events atm event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tAtmTcSubLayerDown, tAtmTcSubLayerClear, atmVclStatusChange, atmVplStatusChange, atmVtlStatusChange, atmIfcStatusChange, tAtmPlcpSubLayerDown, tAtmPlcpSubLayerClear, tAtmEpOutOfPeerVpiOrVciRange, tAtmMaxPeerVccsExceeded, tAtmMaxPeerVpcsExceeded, tAtmIlmiLinkStatusChange, atmIlmiPeerVclStatusChange, atmIlmiPeerVplStatusChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events atm event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events atm event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events atm event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events atm event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events atm event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events atm event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events atm event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

auto-prov event *keyword*

Context	**configure log log-events**
Description	Enter the auto-prov context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events auto-prov event** *keyword*
Description	Events for auto-prov module.
Options	autoNodeProv
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events auto-prov event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events auto-prov event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context **configure log log-events auto-prov event** *keyword*
Description Severity level associated with event type
Default minor
Options cleared, indeterminate, critical, major, minor, warning
Introduced 16.0.R1

specific-throttle *boolean*

Context **configure log log-events auto-prov event** *keyword*
Description Use parameters that throttle this specific event
Default false
Introduced 16.0.R1

specific-throttle-interval *number*

Context **configure log log-events auto-prov event** *keyword*
Description Duration of the event specific throttling interval
Range 1 to 1200
Introduced 16.0.R1

specific-throttle-limit *number*

Context **configure log log-events auto-prov event** *keyword*
Description Times that this event can be logged within the specific throttle interval
Range 1 to 20000
Introduced 16.0.R1

throttle *boolean*

Context **configure log log-events auto-prov event** *keyword*
Description Throttle log events of this type
Default true
Introduced 16.0.R1

bfd event *keyword*

Context	**configure log log-events**
Description	Enter the bfd context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events bfd event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxBfdOnLspSessDown, tmnxBfdOnLspSessUp, tmnxBfdOnLspSessDeleted, tmnxBfdOnLspSessProtChange, tmnxBfdOnLspSessNoCpmNpResources, tmnxBfdOnLspSessNoTailResources
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events bfd event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events bfd event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events bfd event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events bfd event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events bfd event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events bfd event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events bfd event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

bgp event *keyword*

Context	**configure log log-events**
Description	Enter the bgp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events bgp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sendNotification, receiveNotification, bgpInterfaceDown, bgpConnNoKA, bgpConnNoOpenRcvd, bgpRejectConnBadLocAddr, bgpRemoteEndClosedConn, bgpPeerNotFound, bgpConnMgrTerminated, bgpTerminated, bgpNoMemoryPeer, bgpVariableRangeViolation, bgpCfgViol, tBgpPeerGRStatusChange, tBgpNgEstablished, tBgpNgBackwardTransition, tBgpPeerNgHoldTimeInconsistent, tBgpFlowspecUnsupportdComAction, tBgp4RouteInvalid, tBgp4PathAttrInvalid, tBgp4WithdrawnRtFromUpdateError, tBgp4UpdateInvalid, tBgpGeneral, tBgpFibResourceFailPeer, tBgpReceivedInvalidNlri, tBgpMaxNgPfxLmt, tBgpMaxNgPfxLmtThresholdReached, tBgpInstanceDynamicPeerLmtReachd, tBgpPGDynamicPeerLmtReached, bgpEstablishedNotification, bgpBackwardTransNotification, tBgp4PathAttrDiscarded, tmnxBmpSessionStatusChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events bgp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events bgp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events bgp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events bgp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events bgp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events bgp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events bgp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

calltrace event *keyword*

Context	**configure log log-events**
Description	Enter the calltrace context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events calltrace event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxCallTraceMaxFilesNumReached, tmnxCallTraceLocSizeLimitReached, calltraceDebugEvent
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events calltrace event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events calltrace event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events calltrace event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events calltrace event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events calltrace event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events calltrace event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events calltrace event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

cflowd event *keyword*

Context	**configure log log-events**
Description	Enter the cflowd context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events cflowd event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxCflowdCreateFailure, tmnxCflowdStateChange, tmnxCflowdFlowCreateFailure, tmnxCflowdPacketTxFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events cflowd event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events cflowd event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events cflowd event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events cflowd event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events cflowd event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events cflowd event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events cflowd event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

chassis event *keyword*

Context	**configure log log-events**
Description	Enter the chassis context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events chassis event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxEqCardFailure, tmnxEqCardInserted, tmnxEqCardRemoved, tmnxEqWrongCard, tmnxEnvTempTooHigh, tmnxEqPowerSupplyInserted, tmnxEqPowerSupplyRemoved, tmnxRedPrimaryCPMFail, tmnxChassisNotificationClear, tmnxEqSyncIfTimingHoldover, tmnxEqSyncIfTimingHoldoverClear, tmnxEqSyncIfTimingRef1Alarm, tmnxEqSyncIfTimingRef1AlarmClear, tmnxEqSyncIfTimingRef2Alarm, tmnxEqSyncIfTimingRef2AlarmClear, tmnxEqFlashDataLoss, tmnxEqFlashDiskFull, tmnxPeSoftwareVersionMismatch, tmnxPeSoftwareLoadFailed, tmnxPeBootloaderVersionMismatch, tmnxPeBootromVersionMismatch, tmnxPeFPGAVersionMismatch, tmnxEqSyncIfTimingBITSAlarm, tmnxEqSyncIfTimingBITSAlarmClear, tmnxEqCardFirmwareUpgraded, tmnxChassisUpgradeInProgress, tmnxChassisUpgradeComplete, tmnxChassisHiBwMcastAlarm, tmnxEqMdaCfgNotCompatible, tmnxCpmCardSyncFileNotPresent, tmnxEqMdaXplError, tmnxEqCardPChipError, tmnxEqCardSoftResetAlarm, tmnxEqMdaSyncENotCompatible, tmnxIPsecIsaGrpActiveIsaChgd, tmnxEqCardPChipMemoryEvent, tmnxIPsecIsaGrpUnableToSwitch, tmnxIPsecIsaGrpTnlLowWMark, tmnxIPsecIsaGrpTnlHighWMark, tmnxIPsecIsaGrpTnlMax, tmnxEqSyncIfTimingRef1Quality, tmnxEqSyncIfTimingRef2Quality, tmnxEqSyncIfTimingBITSQuality, tmnxEqSyncIfTimingBITS2Quality,

tmnxEqSyncIfTimingRefSwitch, tmnxEqSyncIfTimingBITS2Alarm,
tmnxEqSyncIfTimingBITS2AlarmClr, tmnxEqSyncIfTimingBITSOutRefChg,
tmnxEqCardPChipCamEvent, tmnxEqSyncIfTimingSystemQuality,
tmnxEqHwEnhancedCapability, tmnxEqSyncIfTimingPTPQuality,
tmnxEqSyncIfTimingPTPAlarm, tmnxEqSyncIfTimingPTPAlarmClr,
tmnxPeFirmwareVersionWarning, tmnxMDAIsaTunnelGroupChange,
tmnxEqPowerCapacityExceeded, tmnxEqPowerCapacityExceededClear,
tmnxEqPowerLostCapacity, tmnxEqPowerLostCapacityClear, tmnxEqPowerOverloadState,
tmnxEqPowerOverloadStateClear, tmnxEqCardQChipBufMemoryEvent,
tmnxEqCardQChipStatsMemoryEvent, tmnxEqCardQChipIntMemoryEvent,
tmnxEqCardChipIfDownEvent, tmnxEqCardChipIfCellEvent, tmnxEqLowSwitchFabricCap,
tmnxEqLowSwitchFabricCapClear, tmnxEqPowerSafetyAlertThreshold,
tmnxEqPowerSafetyAlertClear, tmnxEqPowerSafetyLevelThreshold,
tmnxEqPowerSafetyLevelClear, tmnxEqCardTChipParityEvent,
tmnxEqProvPowerCapacityAlm, tmnxEqProvPowerCapacityAlmClr,
tmnxPlcyAcctStatsPoolExcResource, tmnxPlcyAcctStatsPoolLowResource,
tmnxPlcyAcctStatsEventOvrflwClr, tmnxPlcyAcctStatsEventOvrflw,
tmnxIomResHighLimitReached, tmnxIomResExhausted, tmnxIomResStateClr,
tmnxIomEventOverflow, tmnxIomEventOverflowClr, tmnxEqDataPathFailureProtImpact,
tmnxExtStandbyCpmReboot, tmnxExtStandbyCpmRebootFail, tmnxEqMdaIngrXplError,
tmnxSyncIfTimBITS2048khzUnsup, tmnxSyncIfTimBITS2048khzUnsupClr,
tmnxEqMgmtEthRedStandbyRaise, tmnxEqMgmtEthRedStandbyClear,
tmnxEqPhysChassPowerSupOvrTmp, tmnxEqPhysChassPowerSupOvrTmpClr,
tmnxEqPhysChassPowerSupAcFail, tmnxEqPhysChassPowerSupAcFailClr,
tmnxEqPhysChassPowerSupDcFail, tmnxEqPhysChassPowerSupDcFailClr,
tmnxEqPhysChassPowerSupInFail, tmnxEqPhysChassPowerSupInFailClr,
tmnxEqPhysChassPowerSupOutFail, tmnxEqPhysChassPowerSupOutFailCl,
tmnxEqPhysChassisFanFailure, tmnxEqPhysChassisFanFailureClear,
tIPsecIsaMemLowWatermark, tIPsecIsaMemHighWatermark, tIPsecIsaMemMax,
tmnxCpmMemSizeMismatch, tmnxCpmMemSizeMismatchClear,
tmnxPhysChassPwrSupWrgFanDir, tmnxPhysChassPwrSupWrgFanDirClr,
tmnxPhysChassPwrSupPemACRect, tmnxPhysChassPwrSupPemACRectClr,
tmnxPhysChassPwrSupInputFeed, tmnxPhysChassPwrSupInputFeedClr,
tmnxEqBpEpromFail, tmnxEqBpEpromFailClear, tmnxEqBpEpromWarning,
tmnxEqBpEpromWarningClear, tmnxPhysChassisPCMInputFeed,
tmnxPhysChassisPCMInputFeedClr, tmnxIPMacQosIngOverload,
tmnxIPMacQosIngOverloadClear, tmnxIPQosEgrOverload, tmnxIPQosEgrOverloadClear,
tmnxIPv6QosIngOverload, tmnxIPv6QosIngOverloadClear, tmnxIPv6QosEgrOverload,
tmnxIPv6QosEgrOverloadClear, tmnxIPMacFilterIngOverload,
tmnxIPMacFilterIngOverloadClear, tmnxIPMacFilterEgrOverload,
tmnxIPMacFilterEgrOverloadClear, tmnxIPv6FilterIngOverload,
tmnxIPv6FilterIngOverloadClear, tmnxIPv6FilterEgrOverload,
tmnxIPv6FilterEgrOverloadClear, tmnxIPMacCpmFilterOverload,
tmnxIPMacCpmFilterOverloadClear, tmnxIPv6CpmFilterOverload,
tmnxIPv6CpmFilterOverloadClear, tmnxBluetoothModuleConnectionChg,
tmnxGnssAcquiringFix, tmnxGnssAcquiredFix, tmnxPhysChassisPMOutFail,
tmnxPhysChassisPMOutFailClr, tmnxPhysChassisPMInputFeed,
tmnxPhysChassisPMInputFeedClr, tmnxPhysChassisFilterDoorOpen,
tmnxPhysChassisFilterDoorClosed, tmnxPhysChassisPMOverTemp,

tmnxPhysChassisPMOverTempClr, tmnxEqFpgaSoftError, tmnxSasAlarminput1StateChanged, tmnxSasAlarminput2StateChanged, tmnxSasAlarminput3StateChanged, tmnxSasAlarminput4StateChanged, tmnxAlarmInputVoltageFailure, tmnxInterChassisCommsDown, tmnxInterChassisCommsUp, tmnxCpmIcPortDown, tmnxCpmIcPortUp, tmnxCpmIcPortSFFInserted, tmnxCpmIcPortSFFRemoved, tmnxCpmANoLocalIcPort, tmnxCpmBNoLocalIcPort, tmnxCpmALocalIcPortAvail, tmnxCpmBLocalIcPortAvail, CpmIcPortSFFStatusFailure, CpmIcPortSFFStatusDDMCorrupt, CpmIcPortSFFStatusReadError, CpmIcPortSFFStatusUnsupported, tmnxCpmIcPortDDMFailure, tmnxCpmIcPortDDMClear, tmnxSfmIcPortDown, tmnxSfmIcPortUp, tmnxSfmIcPortSFFInserted, tmnxSfmIcPortSFFRemoved, SfmIcPortSFFStatusFailure, SfmIcPortSFFStatusDDMCorrupt, SfmIcPortSFFStatusReadError, SfmIcPortSFFStatusUnsupported, tmnxSfmIcPortDDMFailure, tmnxSfmIcPortDDMClear, tmnxSfmIcPortDegraded, tmnxSfmIcPortDegradedClear, tmnxCardResMacFdbHighUsgSet, tmnxCardResMacFdbHighUsgClr, tmnxPowerShelfInputPwrModeSwitch, tmnxPowerShelfCommsDown, tmnxPowerShelfCommsUp, tmnxPowerShelfOutputStatusSwitch

Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events chassis event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events chassis event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events chassis event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events chassis event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events chassis event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events chassis event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events chassis event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

debug event *keyword*

Context	**configure log log-events**
Description	Enter the debug context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events debug event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	traceEvent
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events debug event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events debug event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events debug event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events debug event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events debug event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events debug event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events debug event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

dhcp event *keyword*

Context	**configure log log-events**
Description	Enter the dhcp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events dhcp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	svcDHCPLseStateRestoreProblem, sapDHCPLeaseEntriesExceeded, sapDHCPLseStateOverride, sapDHCPSuspiciousPcktRcvd, sapDHCPLseStatePopulateErr, sdpBindDHCPLeaseEntriesExceeded, sdpBindDHCPLseStateOverride, sdpBindDHCPSuspiciousPcktRcvd, sdpBindDHCPLseStatePopulateErr, tmnxVRtrDHCPSuspiciousPcktRcvd, sapStaticHostDynMacConflict, sapDHCPProxyServerError, tmnxVRtrDHCPIfLseStatesExceeded, sdpBindDHCPProxyServerError, tmnxVRtrDHCP6RelayLseStExceeded, tmnxVRtrDHCP6ServerLseStExceeded,

	tmnxVRtrDHCP6LseStateOverride, tmnxVRtrDHCP6RelayReplyStripUni, tmnxVRtrDHCP6IllegalClientAddr, tmnxVRtrDHCP6AssignedIllegSubnet, tmnxVRtrDHCP6ClientMacUnresolved, sapDHCPLseStateMobilityError, sdpBindDHCPLseStateMobilityErr, svcDHCPMiscellaneousProblem, sapStatHost6DynMacConflict
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events dhcp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events dhcp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events dhcp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events dhcp event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events dhcp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events dhcp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events dhcp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

dhcps event *keyword*

Context	**configure log log-events**
Description	Enter the dhcps context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events dhcps event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDhcpSvrSubnetMinFreeExc, tmnxDhcpSvrHostConflict, tmnxDhcpSvrPoolUnknown, tmnxDhcpSvrLeaseNotOwner, tmnxDhcpSvrDeclineStaticAddr, tmnxDhcpSvrMsgTooLong, tmnxDhcpsFoStateChange, tmnxDhcpsFoLeaseUpdateFailed, tmnxDhcpSvrUserDbUnknown, tmnxDhcpSvrMaxLeasesReached, tmnxDhcpSvrNoSubnetFixAddr, tmnxDhcpSvrLeaseDefaultTimers, tmnxDhcpSvrPoolMinFreeExc, tmnxDhcpSvrSubnetDepleted, tmnxDhcpSvrPoolDepleted, tmnxDhcpSvrIntLseConflict, tmnxDhcpSvrLeaseModify, tmnxDhcpSvrLeaseCreate, tmnxDhcpSvrLeaseDelete, tmnxLudbDhcpGroupIfTooLong, tmnxLudbPppoeGroupIfTooLong, tmnxDhcpSvrNoContFreeBlocks,

	tmnxDhcpsPoolFoStateChange, tmnxDhcpsPoolFoLeaseUpdateFailed, tmnxDhcpSvrPlThTooLowV6, tmnxDhcpSvrPlThDepletedV6, tmnxDhcpSvrPfxThTooLowV6, tmnxDhcpSvrPfxThDepletedV6, tmnxDhcpsLeaseOfferedExpired, tmnxDhcpsAddrAllocationFailure, tmnxDhcpsPacketDropped
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events dhcps event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events dhcps event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events dhcps event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events dhcps event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events dhcps event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events dhcps event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events dhcps event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

diameter event *keyword*

Context	**configure log log-events**
Description	Enter the diameter context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events diameter event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDiamPolicyPeerStateChange, tmnxDiamAppSessionFailure, tmnxDiamSessionEvent, tmnxDiamPpPrxMcLocStateChanged, tmnxDiamMessageDropped, tmnxDiamNdPeerStatActiveChanged
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events diameter event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events diameter event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events diameter event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events diameter event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events diameter event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events diameter event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events diameter event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

dynsvc event *keyword*

Context	**configure log log-events**
Description	Enter the dynsvc context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events dynsvc event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDynSvcSapFailed
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events dynsvc event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events dynsvc event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events dynsvc event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events dynsvc event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events dynsvc event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events dynsvc event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events dynsvc event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

efm-oam event *keyword*

Context	**configure log log-events**
Description	Enter the efm-oam context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events efm-oam event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxDot3OamPeerChanged, tmnxDot3OamLoopDetected, tmnxDot3OamLoopCleared, dot3OamThresholdEvent, dot3OamNonThresholdEvent, tmnxDot3OamSdThresholdEvent, tmnxDot3OamThresholdEventClr, tmnxDot3OamNonThresholdEventClr
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events efm-oam event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events efm-oam event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events efm-oam event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events efm-oam event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events efm-oam event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events efm-oam event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events efm-oam event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

elmi event *keyword*

Context	**configure log log-events**
Description	Enter the elmi context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events elmi event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxElmiIfStatusChangeEvent, tmnxElmiEVCStatusChangeEvent
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events elmi event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events elmi event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events elmi event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events elmi event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events elmi event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events elmi event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events elmi event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ering event *keyword*

Context	**configure log log-events**
Description	Enter the ering context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ering event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxEthRingPathFwdStateChange, tmnxEthRingApsPrvsnRaiseAlarm, tmnxEthRingApsPrvsnClearAlarm
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ering event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ering event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ering event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ering event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ering event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ering event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ering event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

eth-cfm event *keyword*

Context	**configure log log-events**
Description	Enter the eth-cfm context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	dot1agCfmFaultAlarm, tmnxDot1agCfmMepLbmTestComplete, tmnxDot1agCfmMepLtmTestComplete, tmnxDot1agCfmMepEthTestComplete, tmnxDot1agCfmMepDMTestComplete, tmnxDot1agCfmMepAisStateChanged, tmnxDot1agCfmMipEvaluation, tmnxDot1agCfmMepSLMTestComplete, tmnxDot1agCfmMepCsfStateChanged, tmnxDot1agCfmMepFcltyFaultRaise, tmnxDot1agCfmMepFcltyFaultClear
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events eth-cfm event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events eth-cfm event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

etun event *keyword*

Context	**configure log log-events**
Description	Enter the etun context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events etun event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxEthTunnelApsCfgRaiseAlarm, tmnxEthTunnelApsCfgClearAlarm, tmnxEthTunnelApsPrvsnRaiseAlarm, tmnxEthTunnelApsPrvsnClearAlarm, tmnxEthTunnelApsNoRspRaiseAlarm, tmnxEthTunnelApsNoRspClearAlarm, tmnxEthTunnelApsSwitchoverAlarm
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events etun event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events etun event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events etun event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events etun event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events etun event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events etun event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events etun event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

filter event *keyword*

Context	**configure log log-events**
Description	Enter the filter context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events filter event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tIPFilterPBRPacketsDrop, tFilterSubInsSpaceAlarmRaised, tFilterSubInsSpaceAlarmCleared, tFilterSubInsFltrEntryDropped, tFilterBgpFlowSpecProblem, tFilterApplyPathProblem, tFilterRadSharedFltrAlarmRaised, tFilterRadSharedFltrAlarmClear, tFilterEmbeddingOperStateChange, tFilterEmbedOpenflowOperStateChg, tFilterOpenflowRequestRejected, tFilterEmbedFlowspecOperStateChg, tFilterEmbedVsdOperStateChg, tFilterRPActiveDestChangeEvent
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events filter event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events filter event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events filter event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events filter event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events filter event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events filter event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events filter event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

gmpls event *keyword*

Context	**configure log log-events**
Description	Enter the gmpls context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events gmpls event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrGmplsLspPathStateChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events gmpls event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events gmpls event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events gmpls event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events gmpls event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events gmpls event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events gmpls event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events gmpls event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

gsmp event *keyword*

Context	**configure log log-events**
Description	Enter the gsmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events gsmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxAncpIngRateMonitorEvent, tmnxAncpIngRateMonitorEventL, tmnxAncpEgrRateMonitorEvent, tmnxAncpEgrRateMonitorEventL, tmnxAncpShcvDisabledEvent, tmnxAncpShcvDisabledEventL, tmnxAncpSesRejected, tmnxAncpStringRejected
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events gsmp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events gsmp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events gsmp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events gsmp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events gsmp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events gsmp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events gsmp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

igh event *keyword*

Context	**configure log log-events**
Description	Enter the igh context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events igh event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxIfGroupHandlerProtoOprChange, tmnxIfGroupHdlrMbrProtoOprChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events igh event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events igh event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events igh event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events igh event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events igh event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events igh event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events igh event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

igmp event *keyword*

Context	**configure log log-events**
Description	Enter the igmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events igmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrIgmpIfRxQueryVerMismatch, vRtrIgmpIfCModeRxQueryMismatch, vRtrIgmpMaxGrpsLimitExceeded, vRtrIgmpMcacPlcyDropped, vRtrIgmpHostInstantiationFail, vRtrIgmpHostMaxGrpsLimitExceeded, vRtrIgmpHostMcacPlcyDropped, vRtrIgmpHostCModeRxQueryMismatch, vRtrIgmpHostRxQueryVerMismatch, vRtrIgmpHostMaxSrcsLimitExceeded, vRtrIgmpMaxSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpsLimExceed, vRtrIgmpGrpIfSapMaxSrcsLimExceed, vRtrIgmpGrpIfSapMcacPlcyDropped,

vRtrIgmpGrpIfSapCModeRxQueryMism, vRtrIgmpGrpIfSapRxQueryVerMism, vRtrIgmpHostMaxGrpSrcsLimitExcd, vRtrIgmpMaxGrpSrcsLimitExceeded, vRtrIgmpGrpIfSapMaxGrpSrcLimExcd, vRtrIgmpHostQryIntervalConflict, vRtrIgmpNotifyNumOfIPsecIfLowWm, vRtrIgmpNotifyNumOfIPsecIfHighWm, vRtrIgmpNotifyNumOfIPsecIfMaxRch

Introduced 16.0.R1

Notes This element is part of a list key

generate *boolean*

Context **configure log log-events igmp event** *keyword*

Description Generate log events of this type and increment the event counter

Default true

Introduced 16.0.R1

repeat *boolean*

Context **configure log log-events igmp event** *keyword*

Description The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.

Default false

Introduced 16.0.R1

severity *keyword*

Context **configure log log-events igmp event** *keyword*

Description Severity level associated with event type

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

specific-throttle *boolean*

Context **configure log log-events igmp event** *keyword*

Description Use parameters that throttle this specific event

Default false

Introduced 16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events igmp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events igmp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events igmp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

igmp-snooping event *keyword*

Context	**configure log log-events**
Description	Enter the igmp-snooping context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sapIgmpSnpgGrpLimitExceeded, sapIgmpSnpgMcacPlcyDropped, sdpBndIgmpSnpgGrpLimitExceeded, sdpBndIgmpSnpgMcacPlcyDropped, sapIgmpSnpgMcsFailure, sapIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgSrcLimitExceeded, sdpBndIgmpSnpgGrpSrcLimitExceed, sapIgmpSnpgGrpSrcLimitExceeded, eMplsIgmpSnpgMfibFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events igmp-snooping event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ip event *keyword*

Context	**configure log log-events**
Description	Enter the ip context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ip event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	clearRTMError, ipEtherBroadcast, ipDuplicateAddress, ipArpInfoOverwritten, fibAddFailed, qosNetworkPolicyMallocFailed, ipArpBadInterface, ipArpDuplicateIpAddress, ipArpDuplicateMacAddress, ipAnyDuplicateAddress
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ip event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ip event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ip event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ip event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ip event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ip event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ip event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ipsec event *keyword*

Context	**configure log log-events**
Description	Enter the ipsec context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ipsec event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tIPsecRUTnlFailToCreate, tIPsecRUSAFailToAddRoute, tIPsecBfdIntfSessStateChgd, tIPsecRadAcctPlcyFailure, tIPSecTrustAnchorPrfOprChg, tIPsecTunnelEncapIpMtuTooSmall, tIPsecRuTnlEncapIpMtuTooSmall, tmnxSecNotifCmptedCertHashChngd, tmnxSecNotifCmptedCertChnChngd, tmnxSecNotifSendChnNotInCmptChn, tmnxIPsecTunnelOperStateChange, tmnxIPsecGWOperStateChange, tIPsecRUTnlRemoved
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ipsec event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ipsec event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ipsec event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ipsec event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ipsec event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ipsec event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ipsec event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

isis event *keyword*

Context	**configure log log-events**
Description	Enter the isis context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events isis event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrIsisSpbNbrMultAdjExists, vRtrIsisSpbNbrMultAdjExistsClear, vRtrSpbEctFidCfgChg, tmnxIsisDatabaseOverload, tmnxIsisManualAddressDrops, tmnxIsisCorruptedLSPDetected, tmnxIsisMaxSeqExceedAttempt, tmnxIsisIDLenMismatch, tmnxIsisMaxAreaAddrsMismatch, tmnxIsisOwnLSPPurge, tmnxIsisSequenceNumberSkip, tmnxIsisAutTypeFail, tmnxIsisAuthFail, tmnxIsisVersionSkew, tmnxIsisAreaMismatch, tmnxIsisRejectedAdjacency, tmnxIsisLSPTooLargeToPropagate, tmnxIsisOrigLSPBufSizeMismatch, tmnxIsisProtoSuppMismatch, tmnxIsisAdjacencyChange, tmnxIsisCircIdExhausted, tmnxIsisAdjRestartStatusChange, tmnxIsisLdpSyncTimerStarted, tmnxIsisLdpSyncExit, tmnxIsisExportLimitReached, tmnxIsisExportLimitWarning, tmnxIsisRoutesExpLmtDropped, tmnxIsisFailureDisabled, tmnxIsisSidError, tmnxIsisSidNotInLabelRange, tmnxIsisRejectedAdjacencySid, tmnxIsisLSPPurge, tmnxIsisPfxLimitOverloadWarning, tmnxIsisAdjBfdSessionSetupFail, tmnxIsisSrgbBadLabelRange, tmnxIsisCircMtuTooLow, tmnxIsisRejectedAdjacencySet
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events isis event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events isis event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events isis event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events isis event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events isis event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events isis event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events isis event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

l2tp event *keyword*

Context	**configure log log-events**
Description	Enter the l2tp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events l2tp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxL2tpPeerUnreachable, tmnxL2tpIsaMdaVRtrStateChange, tmnxL2tpLnsSePppSessionFailure, tmnxL2tpTunnelBlacklisted, tmnxL2tpTunnelSelBlacklistFull, tmnxL2tpLnsPppNcpFailure, tmnxL2tpApFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events l2tp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events l2tp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events l2tp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events l2tp event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events l2tp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events l2tp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events l2tp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

lag event *keyword*

Context	**configure log log-events**
Description	Enter the lag context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events lag event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	DynamicCostOn, DynamicCostOff, LagPortAddFailed, LagSubGroupSelected, LagPortAddFailureCleared, LagStateEvent, tLagMemberStateEvent, tmnxLagBfdMemStateChanged
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events lag event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events lag event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events lag event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events lag event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events lag event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events lag event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events lag event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ldap event *keyword*

Context	**configure log log-events**
Description	Enter the ldap context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ldap event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxLdapOperStateChange, tmnxLdapServerOperStateChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ldap event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ldap event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ldap event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ldap event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ldap event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ldap event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ldap event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ldp event *keyword*

Context	**configure log log-events**
Description	Enter the ldp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ldp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrLdpStateChange, vRtrLdpGroupIdMismatch, vRtrLdpNgIpv4InstStateChange, vRtrLdpNgIpv6InstStateChange, vRtrLdpNgIfStateChange, vRtrLdpNgInetIfStateChange, vRtrLdpNgTargPeerStateChange, vRtrLdpNgSessionStateChange, vRtrLdpNgSessMaxFecThresChanged, vRtrLdpNgSessMaxFecLimitReached, vRtrLdpNgResourceExhaustion, vRtrLdpNgAddrFecCommMismatch
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ldp event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ldp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ldp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ldp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ldp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ldp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ldp event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

li event *keyword*

Context	**configure log log-events**
Description	Enter the li context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events li event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sbiBootLiConfig, sourceEnabled, sourceDisabled, destinationEnabled, destinationDisabled, sourceSapChange, sourceSubscriberChange, tMirrorSourceIPFltrChangeReject, tMirrorSourceMacFltrChangeReject, tMirrorSourceFilterAssignReject, tMirrorDestinationChangeReject, tMirrorSourceFilterOverruled, tMirrorSourceFilterAssignWarn, tMirrorFilterAssignToSapWarn, tMirrorFilterAssignToSdpWarn, tMirrorFilterAssignToItfWarn, tMirrorSourceLiFilterChanged, tMirrorSourceLiSubProblem, tMirrorSourceIPv6FltrChangeRej, tMirrorLiNatLsnSubOperStateCh, tMirrorLiNatL2awSubOperStateCh, tMirrorLiNat64SubOperStateCh, tMirrorLiX2Alarm, cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, ssh_user_login, ssh_user_logout, ssh_user_login_failed, ssh_user_login_max_attempts, cli_user_io, snmp_user_set, cli_config_io, cli_unauth_user_io, cli_unauth_config_io, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, host_snmp_attempts, radiusFailed, ssiSaveConfigSucceeded, ssiSaveConfigFailed, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, ssiSyncConfigOK, ssiSyncConfigFailed, tmnxClear
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events li event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events li event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events li event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events li event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events li event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events li event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events li event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

lldp event *keyword*

Context	**configure log log-events**
Description	Enter the lldp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events lldp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	lldpRemTablesChange, tmnxLldpRemEntryPeerAdded, tmnxLldpRemEntryPeerUpdated, tmnxLldpRemEntryPeerRemoved, tmnxLldpRemManAddrEntryAdded, tmnxLldpRemManAddrEntryRemoved
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events lldp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events lldp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events lldp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events lldp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events lldp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events lldp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events lldp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

lmp event *keyword*

Context	**configure log log-events**
Description	Enter the lmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events lmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxLmpVRtrTeLinkPropMismatch, tmnxLmpVRtrTeLinkPropMismatchClr, tmnxLmpVRtrDbLinkPropMismatch, tmnxLmpVRtrDbLinkPropMismatchClr, tmnxLmpVRtrControlChannelState, tmnxLmpVRtrTeLinkState
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events lmp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events lmp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events lmp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events lmp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events lmp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events lmp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events lmp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

logger event *keyword*

Context	**configure log log-events**
Description	Enter the logger context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events logger event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	started, tmnxLogTraceError, tmnxLogSpaceContention, tmnxLogAdminLocFailed, tmnxLogBackupLocFailed, tmnxLogFileRollover, tmnxLogFileDeleted, tmnxClear, tmnxTestEvent, tmnxLogEventThrottled, tmnxSysLogTargetProblem, tmnxLogAccountingDataLoss, tmnxStdEventsReplayed, tmnxLogOnlyEventThrottled, tmnxLogEventOverrun, tmnxLogOnlyEventOverrun
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events logger event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events logger event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events logger event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events logger event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events logger event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events logger event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events logger event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

macsec event *keyword*

Context	**configure log log-events**
Description	Enter the macsec context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events macsec event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxMacsecConfiguredPortCA, tmnxMacsecUnconfiguredPortCA, tmnxMacsecEnabledPort, tmnxMacsecDisabledPort, tmnxMacsecMaxPeerLimitExceeded, tmnxMkaSessionEstablished, tmnxMkaPskRollover, tmnxMkaSessionEnded
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events macsec event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events macsec event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events macsec event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events macsec event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events macsec event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events macsec event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events macsec event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mc-redundancy event *keyword*

Context	**configure log log-events**
Description	Enter the mc-redundancy context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxMcRedundancyPeerStateChanged, tmnxMcRedundancyMismatchDetected, tmnxMcRedundancyMismatchResolved, tmnxMcPeerSyncStatusChanged, tmnxMcSyncClientAlarmRaised, tmnxMcSyncClientAlarmCleared, tmnxSrrpSubnetMismatch, tmnxSrrpSubnetMismatchCleared, tmnxSrrpInstanceIdMismatch, tmnxSrrpSapMismatch, tmnxSrrpSapTagMismatch, tmnxSrrpRedIfMismatch, tmnxSrrpDualMaster, tmnxMcLagInfoLagChanged, tmnxSrrpSystemIpNotSet, tmnxMcRingOperStateChanged, tmnxMcRingInbCtrlOperStateChgd, tmnxMcRingNodeLocOperStateChgd, tmnxMcSyncClockSkewRaised, tmnxMcSyncClockSkewCleared, tmnxSrrpDuplicateSubIfAddress, tmnxMcPeerRingsOperStateChanged,

	tmnxSrrpTrapNewMaster, tmnxSrrpBecameBackup, srrpPacketDiscarded, tmnxSrrpBfdIntfSessStateChgd, tmnxMcPeerEPBfdSessionOpen, tmnxMcPeerEPBfdSessionClose, tmnxMcPeerEPBfdSessionUp, tmnxMcPeerEPBfdSessionDown, tmnxMcPeerEPOperDown, tmnxMcPeerEPOperUp, tmnxMCEPSessionPsvModeEnabled, tmnxMCEPSessionPsvModeDisabled, tMcPeerIPsecTnlGrpMasterStateChg, tMcPeerIPsecTnlGrpProtStatusChg, tmnxMcOmcrStatFailedChanged, tmnxMcOmcrClientNumEntriesHigh, tmnxSrrpOperDownInvalidMac, tmnxSrrpOperDownInvalidMacClear
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mc-redundancy event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mcpath event *keyword*

Context	**configure log log-events**
Description	Enter the mcpath context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mcpath event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxMcPathSrcGrpBlkHole, tmnxMcPathSrcGrpBlkHoleClear, tmnxMcPathAvailBwLimitReached, tmnxMcPathAvailBwValWithinRange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mcpath event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mcpath event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mcpath event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mcpath event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mcpath event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mcpath event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mcpath event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mgmt-core event *keyword*

Context	**configure log log-events**
Description	Enter the mgmt-core context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	none, mdConfigChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mgmt-core event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mgmt-core event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mirror event *keyword*

Context	**configure log log-events**
Description	Enter the mirror context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mirror event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sourceEnabled, sourceDisabled, destinationEnabled, destinationDisabled, sourceIpFilterChange, sourceMacFilterChange, sourceSapChange, sourceSubscriberChange, tMirrorSourceIpv6FilterChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mirror event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mirror event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mirror event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mirror event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mirror event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mirror event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mirror event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mld event *keyword*

Context	**configure log log-events**
Description	Enter the mld context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mld event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrMldIfRxQueryVerMismatch, vRtrMldIfCModeRxQueryMismatch, vRtrMldMaxGrpsLimitExceeded, vRtrMldMcacPlcyDropped, vRtrMldHostInstantiationFail, vRtrMldHostMaxGrpsLimitExceeded, vRtrMldHostMcacPlcyDropped, vRtrMldHostCModeRxQueryMismatch, vRtrMldHostRxQueryVerMismatch, vRtrMldHostMaxSrcsLimitExceeded, vRtrMldMaxSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpsLimExceed, vRtrMldGrpIfSapMaxSrcsLimExceed, vRtrMldGrpIfSapMcacPlcyDropped, vRtrMldGrpIfSapCModeRxQueryMism, vRtrMldGrpIfSapRxQueryVerMism, vRtrMldHostMaxGrpSrcsLimitExcd, vRtrMldMaxGrpSrcsLimitExceeded, vRtrMldGrpIfSapMaxGrpSrcLimExcd, vRtrMldHostQryIntervalConflict
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mld event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mld event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mld event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mld event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mld event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mld event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mld event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mld-snooping event *keyword*

Context	**configure log log-events**
Description	Enter the mld-snooping context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sapMldSnpgGrpLimitExceeded, sdpBndMldSnpgGrpLimitExceeded, sapMldSnpgMcsFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mld-snooping event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mld-snooping event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

mpls event *keyword*

Context	**configure log log-events**
Description	Enter the mpls context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mpls event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	mplsXCUp, mplsXCDown, mplsTunnelUp, mplsTunnelDown, mplsTunnelRerouted, mplsTunnelReoptimized, vRtrMplsStateChange, vRtrMplsIfStateChange, vRtrMplsLspUp, vRtrMplsLspDown, vRtrMplsLspPathUp, vRtrMplsLspPathDown, vRtrMplsLspPathRerouted, vRtrMplsLspPathResignaled, vRtrMplsP2mpInstanceUp, vRtrMplsP2mpInstanceDown, vRtrMplsS2lSubLspUp, vRtrMplsS2lSubLspDown, vRtrMplsS2lSubLspRerouted, vRtrMplsS2lSubLspResignaled, vRtrMplsLspPathSoftPreempted, vRtrMplsLspPathLstFillReoptElig, vRtrMplsP2mpInstanceResignaled, vRtrMplsResignalTimerExpired, vRtrMplsLspPathMbbStatusEvent, vRtrMplsLspSwitchStbyFailure, vRtrMplsLspActivePathChanged, vRtrMplsXCBundleChange, vRtrMplsNodeInIgpOverload
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mpls event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mpls event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mpls event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mpls event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mpls event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mpls event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mpls event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

mpls-tp event *keyword*

Context	**configure log log-events**
Description	Enter the mpls-tp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrMplsTpLspRevertMismatchAlarm, vRtrMplsTpLspRevertMismatchClear, vRtrMplsTpLspPtTypeMismatchAlarm, vRtrMplsTpLspPtTypeMismatchClear, vRtrMplsTpLspActivePathUp, vRtrMplsTpLspActivePathChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events mpls-tp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events mpls-tp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

msdp event *keyword*

Context	**configure log log-events**
Description	Enter the msdp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events msdp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	msdpEstablished, msdpBackwardTransition, tmnxMsdpNgActSrcLimExcd, tmnxMsdpNgPeerActSrcLimExcd, tmnxMsdpNgRPFFailure, tmnxMsdpNgSourceSrcActMsgsExcd, tmnxMsdpNgGroupSrcActMsgsExcd
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events msdp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events msdp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events msdp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events msdp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events msdp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events msdp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events msdp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

nat event *keyword*

Context	**configure log log-events**
Description	Enter the nat context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events nat event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxNatPlL2AwBlockUsageHigh, tmnxNatIsaMemberSessionUsageHigh, tmnxNatPlLsnMemberBlockUsageHigh, tmnxNatL2AwSubIcmpPortUsageHigh, tmnxNatL2AwSubUdpPortUsageHigh, tmnxNatL2AwSubTcpPortUsageHigh, tmnxNatL2AwSubSessionUsageHigh, tmnxNatPlBlockAllocationLsn, tmnxNatPlBlockAllocationL2Aw, tmnxNatResourceProblemDetected, tmnxNatResourceProblemCause, tmnxNatPlAddrFree, tmnxNatPlLsnRedActiveChanged, tmnxNatPcpSrvStateChanged, tmnxNatMdaActive, tmnxNatLsnSubBlksFree, tmnxNatDetPlcyChanged, tmnxNatMdaDetectsLoadSharingErr, tmnxNatIsaGrpOperStateChanged, tmnxNatIsaGrpIsDegraded, tmnxNatLsnSubIcmpPortUsgHigh, tmnxNatLsnSubUdpPortUsgHigh, tmnxNatLsnSubTcpPortUsgHigh, tmnxNatLsnSubSessionUsgHigh, tmnxNatInAddrPrefixBlksFree, tmnxNatFwd2EntryAdded, tmnxNatDetPlcyOperStateChanged, tmnxNatDetMapOperStateChanged, tmnxNatFwd2OperStateChanged, tmnxNatVrtrOutDnatOnlyRoutesHigh, tmnxNatMapRuleChange, tmnxNatMaxNbrSubsOrHostsExceeded, tmnxNatNbrSubsOrHostsBelowThrsh
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events nat event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events nat event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events nat event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events nat event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events nat event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events nat event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events nat event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

ntp event *keyword*

Context	**configure log log-events**
Description	Enter the ntp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ntp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxNtpAuthMismatch, tmnxNtpNoServersAvail, tmnxNtpServersAvail, tmnxNtpOperChange, tmnxNtpServerChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ntp event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ntp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ntp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ntp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ntp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ntp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ntp event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

oam event *keyword*

Context	**configure log log-events**
Description	Enter the oam context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events oam event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxOamPingProbeFailedV3, tmnxOamPingTestFailedV3, tmnxOamPingTestCompletedV3, tmnxAncpLoopbackTestCompleted, tmnxAncpLoopbackTestCompletedL, tmnxOamTrPathChange, tmnxOamTrTestFailed, tmnxOamTrTestCompleted, svcIdInvalid, svcIdWrongType, tmnxOamLdpTtraceAutoDiscState, tmnxOamLdpTtraceFecProbeState, tmnxOamLdpTtraceFecDisStatus, tmnxOamLdpTtraceFecPFailUpdate, tmnxOamSaaThreshold, tmnxOamDiagTestCompleted, tmnxTwampSrvInactivityTimeout, tmnxTwampSrvMaxConnsExceeded, tmnxTwampSrvPfxMaxConnsExceeded, tmnxTwampSrvMaxSessExceeded, tmnxTwampSrvPfxMaxSessExceeded, tmnxOamPmThrRaise, tmnxOamPmThrClear
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events oam event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events oam event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events oam event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events oam event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events oam event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events oam event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events oam event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

openflow event *keyword*

Context	**configure log log-events**
Description	Enter the openflow context
Introduced	16.0.R3

event *keyword*

Context	**configure log log-events openflow event** *keyword*
Description	Events for openflow module.
Options	tmnxOFFlowEntryInsertFailed
Introduced	16.0.R2
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events openflow event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R2

repeat *boolean*

Context	**configure log log-events openflow event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R2

severity *keyword*

Context	**configure log log-events openflow event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R2

specific-throttle *boolean*

Context	**configure log log-events openflow event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R2

specific-throttle-interval *number*

Context	**configure log log-events openflow event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R2

specific-throttle-limit *number*

Context	**configure log log-events openflow event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R2

throttle *boolean*

Context	**configure log log-events openflow event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R2

ospf event *keyword*

Context	**configure log log-events**
Description	Enter the ospf context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ospf event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxOspfVirtIfStateChange, tmnxOspfVirtNbrStateChange, tmnxOspfVirtIfConfigError, tmnxOspfVirtIfAuthFailure, tmnxOspfVirtIfRxBadPacket, tmnxOspfVirtIfTxRetransmit, tmnxOspfAreaOriginateLsa, tmnxOspfAreaMaxAgeLsa, tmnxOspfLsdbOverflow, tmnxOspfLsdbApproachingOverflow, tmnxOspfNssaTranslatorStatusChg, tmnxOspfRestartStatusChange, tmnxOspfVirtNbrRestartHlprStsChg, tmnxOspfSpfRunsStopped, tmnxOspfSpfRunsRestarted, tmnxOspfOverloadEntered, tmnxOspfOverloadExited, tmnxOspfAsOriginateLsa, tmnxOspfAsMaxAgeLsa, tmnxOspfShamIfStateChange, tmnxOspfShamNbrStateChange, tmnxOspfShamIfConfigError, tmnxOspfShamIfAuthFailure, tmnxOspfShamIfRxBadPacket, tmnxOspfShamIfTxRetransmit, tmnxOspfShamNbrRestartHlprStsChg, tmnxOspfFailureDisabled, tmnxOspfExportLimitReached, tmnxOspfExportLimitWarning, tmnxOspfRoutesExpLmtDropped, tmnxOspfNgNbrStateChange, tmnxOspfNgIfConfigError, tmnxOspfNgIfAuthFailure, tmnxOspfNgIfRxBadPacket, tmnxOspfNgIfTxRetransmit, tmnxOspfNgIfStateChange, tmnxOspfNgNbrRestartHlprStsChg, tmnxOspfNgLinkOriginateLsa, tmnxOspfNgLinkMaxAgeLsa, tmnxOspfNgLdpSyncTimerStarted, tmnxOspfNgLdpSyncExit, tmnxOspfSrSidError, tmnxOspfSrSidNotInLabelRange, tmnxOspfOverloadWarning, tmnxOspfRejectedAdjacencySid, tmnxOspfAdjBfdSessionSetupFail, tmnxOspfSrgbBadLabelRange, tmnxOspfRejectedAdjacencySet
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ospf event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ospf event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ospf event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ospf event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ospf event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ospf event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ospf event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

pcap event *keyword*

Context	**configure log log-events**
Description	Enter the pcap context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events pcap event** *keyword*
Description	Events for PCAP module
Options	tmnxPcapFileError, tmnxPcapBufferFull, tmnxPcapReadWriteFailure, tmnxPcapSoftwareFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events pcap event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events pcap event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context **configure log log-events pcap event** *keyword*
Description Severity level associated with event type
Options cleared, indeterminate, critical, major, minor, warning
Introduced 16.0.R1

specific-throttle *boolean*

Context **configure log log-events pcap event** *keyword*
Description Use parameters that throttle this specific event
Default false
Introduced 16.0.R1

specific-throttle-interval *number*

Context **configure log log-events pcap event** *keyword*
Description Duration of the event specific throttling interval
Range 1 to 1200
Introduced 16.0.R1

specific-throttle-limit *number*

Context **configure log log-events pcap event** *keyword*
Description Times that this event can be logged within the specific throttle interval
Range 1 to 20000
Introduced 16.0.R1

throttle *boolean*

Context **configure log log-events pcap event** *keyword*
Description Throttle log events of this type
Default true
Introduced 16.0.R1

pim event *keyword*

Context	**configure log log-events**
Description	Enter the pim context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events pim event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrPimNgIfNeighborLoss, vRtrPimNgIfNeighborUp, vRtrPimNgInvalidJoinPrune, vRtrPimNgInvalidRegister, vRtrPimNgGrpInSSMRange, vRtrPimNgBSRStateChange, vRtrPimNgHelloDropped, vRtrPimNgSGLimitExceeded, vRtrPimNgReplicationLmtExceeded, vRtrPimNgMDTLimitExceeded, vRtrPimNgMaxGrpsLimitExceeded, vRtrPimNgDataMtReused, vRtrPimNgMcacPlcyDropped, vRtrPimNgInvalidIPmsiTunnel, vRtrPimNgMaxGraftRetry
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events pim event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events pim event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events pim event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events pim event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events pim event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events pim event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events pim event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

pim-snooping event *keyword*

Context	**configure log log-events**
Description	Enter the pim-snooping context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPimSnpgIfNeighborLoss, tmnxPimSnpgIfNeighborUp, tmnxPimSnpgSGLimitExceeded, tmnxPimSnpgSnoopModeChanged
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events pim-snooping event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events pim-snooping event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

port event *keyword*

Context	**configure log log-events**
Description	Enter the port context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events port event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	sonetSDHAlarmSet, sonetSDHAlarmClear, sonetSDHChannelAlarmSet, sonetSDHChannelAlarmClear, SFPInserted, SFPRemoved, SFPStatusFailure, portError, yellowDiffDelayExceeded, redDiffDelayExceeded, bndlBadEndPtDiscriminator, ds3AlarmSet, ds3AlarmClear, ds1AlarmSet, ds1AlarmClear, etherAlarmSet, etherAlarmClear, ds1LoopbackStart, ds1LoopbackStop, ds3LoopbackStart, ds3LoopbackStop, sdhLoopbackStart, sdhLoopbackStop, etherLoopDetected, etherLoopCleared, etherSpeedNotCompatible, etherDuplexNotCompatible, etherIngressRateCfgNotCompatible, digitalDiagnosticMonitorFailed, SFPStatusDDMCorrupt, SFPStatusReadError, SFPStatusUnsupported, dsxClockSyncStateChange, bundleMlfrMemberLoopback, tmnxPortUnsupportedFunction,

	otuAlarms, wtrkAlarms, tPortAccEgrQGrpHostMatchFailure, tPortEgrVPortHostMatchFailure, digitalDiagnosticMonitorCleared, tmnxEqSonetClockSrcNotCompatible, tmnxEqSonetSfThreshNotCompatible, tmnxEqSonetFramingNotCompatible, tmnxResvCbsPoolThreshGreen, tmnxResvCbsPoolThreshAmber, tmnxResvCbsPoolThreshRed, tmnxEqPortEtherCrcAlarm, tmnxEqPortEtherCrcAlarmClear, tmnxEqPortEtherInternalAlarm, tmnxEqPortEtherInternalAlarmClr, tmnxEqCohOptPortAlarm, tmnxEqPortEtherSymMonAlarm, tmnxEqPortEtherSymMonAlarmClear, SFPStatusCulprit, SFPStatusBlocked, SFPStatusOperational, tmnxRS232ControlLeadSignalChg, tmnxRS232SquelchStatusChange, tmnxRS232SquelchResetIssued, tmnxCellularBearerCreated, tmnxCellularBearerDeleted, tmnxCellularBearerModified, tmnxEqPortEtherEgressRateChange, tmnxCellularNoServiceReset
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events port event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events port event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events port event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events port event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events port event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events port event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events port event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ppp event *keyword*

Context	**configure log log-events**
Description	Enter the ppp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ppp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPppCpUp, tmnxPppCpDown, tmnxPppNcpUp, tmnxPppNcpDown, tmnxPppKeepaliveFailure, tmnxPppLqmFailure, ipcpRemoteIpUnknown, ipcpSameLocalAndRemoteIp, ipcpPeerSuggestedDifferentIp, ipcpPeerRejectedOurIp, ipcpPeerOnDifferentSubnet, tmnxPppLoopback, tmnxPppLoopbackClear, ipv6cpRemoteIntIdUnknown, ipv6cpSameLocalAndRemoteIntId, ipv6cpPeerSuggestedDiffIntId, ipv6cpPeerRejectedOurIntId, ipv6cpPeerOnDifferentSubnet
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ppp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ppp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ppp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ppp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ppp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ppp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ppp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

pppoe event *keyword*

Context	**configure log log-events**
Description	Enter the pppoe context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events pppoe event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPppoeSessionFailure, tmnxPppoeNcpFailure, tmnxMlpppBundleIndicatorsChange, tmnxPppoeLacSteeringActive, tmnxPppoeLacSteeringStopped, tmnxPppoeLacSteeringFailed
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events pppoe event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events pppoe event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events pppoe event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events pppoe event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events pppoe event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events pppoe event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events pppoe event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

pppoe-clnt event *keyword*

Context	**configure log log-events**
Description	Enter the pppoe-clnt context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPppoeClientSetupFailure, tmnxPppoeClientEchoTimeout, tmnxPppoeClientNcpFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events pppoe-clnt event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ptp event *keyword*

Context	**configure log log-events**
Description	Enter the ptp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events ptp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxPtpCardNotSupported, tmnxPtpCardNotSupportedClear, tmnxPtpMasterClockChangedEvent, tmnxPtpClockRecoveryStateChange, tmnxPtpOutOfResources, tmnxPtpOutOfResourcesClear, tmnxPtpDynamicChange, tmnxPtpPortNoTimestamping
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ptp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events ptp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events ptp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events ptp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events ptp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events ptp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events ptp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

radius event *keyword*

Context	**configure log log-events**
Description	Enter the radius context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events radius event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxRadSrvPlcySrvOperStateCh, tmnxRadRouteDownloadFailed, tmnxRadAcctOnOngoing
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events radius event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events radius event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events radius event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events radius event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events radius event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events radius event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events radius event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

rip event *keyword*

Context	**configure log log-events**
Description	Enter the rip context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events rip event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	ripPacketDiscarded, vRtrRipAuthTypeMismatch, vRtrRipAuthTypeFailure, vRtrRipInstanceShuttingDown, vRtrRipInstanceRestarted, vRtrRipInstanceExpLmtReached, vRtrRipInstanceExpLmtWarning, vRtrRipInstanceRtsExpLmtDropped, vRtrRipPeerBfdDown
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events rip event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events rip event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events rip event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events rip event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events rip event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events rip event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events rip event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

ripng event *keyword*

Context	**configure log log-events**
Description	Enter the ripng context
Introduced	16.0.R3

event *keyword*

Context	**configure log log-events ripng event** *keyword*
Description	Events for RIPng module.
Options	tmnxRipNgPacketDiscarded, tmnxRipNgAuthTypeMismatch, tmnxRipNgAuthFailure, tmnxRipNgInstShuttingDown, tmnxRipNgInstRestarted, tmnxRipNgInstExpLmtReached, tmnxRipNgInstExpLmtWarning, tmnxRipNgInstRtsExpLmtDropped, tmnxRipNgIfUcastAddrNotUsed, tmnxRipNgPeerBfdDown
Introduced	16.0.R3
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events ripng event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R3

repeat *boolean*

Context	**configure log log-events ripng event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R3

severity *keyword*

Context	**configure log log-events ripng event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R3

specific-throttle *boolean*

Context	**configure log log-events ripng event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R3

specific-throttle-interval *number*

Context	**configure log log-events ripng event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R3

specific-throttle-limit *number*

Context	**configure log log-events ripng event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R3

throttle *boolean*

Context	**configure log log-events ripng event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R3

route-policy event *keyword*

Context	**configure log log-events**
Description	Enter the route-policy context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events route-policy event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	trigPolicyPrevEval
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events route-policy event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events route-policy event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events route-policy event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events route-policy event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events route-policy event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events route-policy event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events route-policy event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

rpki event *keyword*

Context	**configure log log-events**
Description	Enter the rpki context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events rpki event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxRpkiNotifySession, tmnxRpkiStaleTimerExpiry
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events rpki event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events rpki event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events rpki event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events rpki event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events rpki event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events rpki event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events rpki event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

rsvp event *keyword*

Context	**configure log log-events**
Description	Enter the rsvp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events rsvp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vRtrRsvpStateChange, vRtrRsvpIfStateChange, vRtrRsvpIfNbrStateUp, vRtrRsvpIfNbrStateDown, vRtrRsvpPEFailOverPriToStdBy, vRtrRsvpPEFailOverStdByToPri
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events rsvp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events rsvp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events rsvp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events rsvp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events rsvp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events rsvp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events rsvp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

satellite event *keyword*

Context	**configure log log-events**
Description	Enter the satellite context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events satellite event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxSatelliteOperStateChange, tmnxSatSyncIfTimRefSwitch, tmnxSatSyncIfTimSystemQuality, tmnxSatSyncIfTimRef1Quality, tmnxSatSyncIfTimRef2Quality, tmnxSatSyncIfTimHoldover, tmnxSatSyncIfTimHoldoverClear, tmnxSatSyncIfTimRef1Alarm, tmnxSatSyncIfTimRef1AlarmClear, tmnxSatSyncIfTimRef2Alarm, tmnxSatSyncIfTimRef2AlarmClear, tmnxSatLocalForwardStateChg, tmnxSatLocalForwardSapStateChg
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events satellite event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events satellite event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events satellite event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events satellite event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events satellite event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events satellite event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events satellite event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

security event *keyword*

Context	**configure log log-events**
Description	Enter the security context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events security event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, ssh_user_login, ssh_user_logout, ssh_user_login_failed, ssh_user_login_max_attempts, radiusOperStatusChange, user_disconnect, radiusSystemIpAddrNotSet, tacplusOperStatusChange, mafEntryMatch, ftp_transfer_successful, ftp_transfer_failed, enable_admin, host_snmp_attempts, SSH_server_preserve_key_fail, tacplusInetSrvrOperStatusChange, radiusInetServerOperStatusChange, tmnxKeyChainAuthFailure, tmnxCpmProtViolPort, tmnxCpmProtViolPortAgg, tmnxCpmProtViolIf, tmnxCpmProtViolSap, tmnxCpmProtViolMac, tmnxCpmProtViolVdoSvcClient, tmnxCpmProtViolVdoVrtrClient, tmnxMD5AuthFailure, tmnxCpmProtDefPolModified, tmnxCpmProtViolSdpBind, tmnxCpmProtExcdSdpBind, tmnxCpmProtExcdSapEcm, tmnxCpmProtExcdSdpBindEcm, tmnxPkiFileReadFailed, tmnxPkiCertVerificationFailed, tmnxCAProfileStateChange, tmnxCpmProtExcdSapIp, tmnxDcpFpDynPoolUsageHiAlmRaise, tmnxDcpFpDynPoolUsageHiAlmClear, tmnxDcpCardFpEventOvrflwClr, tmnxDcpCardSapEventOvrflwClr, tmnxDcpCardVrtrIfEventOvrflwClr, sapDcpStaticExcd, sapDcpDynamicExcd, sapDcpStaticHoldDownStart, sapDcpDynamicHoldDownStart, sapDcpStaticHoldDownEnd, sapDcpDynamicHoldDownEnd, sapDcpStaticConform, sapDcpDynamicConform, sapDcpLocMonExcd, sapDcpLocMonExcdDynResource, sapDcpLocMonExcdAllDynAlloc, sapDcpLocMonExcdAllDynFreed, sapDcpDynamicEnforceAlloc, sapDcpDynamicEnforceFreed, vRtrIfDcpStaticExcd, vRtrIfDcpDynamicExcd, vRtrIfDcpStaticHoldDownStart, vRtrIfDcpDynamicHoldDownStart, vRtrIfDcpStaticHoldDownEnd, vRtrIfDcpDynamicHoldDownEnd, vRtrIfDcpStaticConform, vRtrIfDcpDynamicConform, vRtrIfDcpLocMonExcd, vRtrIfDcpLocMonExcdDynResource, vRtrIfDcpLocMonExcdAllDynAlloc, vRtrIfDcpLocMonExcdAllDynFreed, vRtrIfDcpDynamicEnforceAlloc, vRtrIfDcpDynamicEnforceFreed, tmnxDcpCardFpEventOvrflw, tmnxDcpCardSapEventOvrflw, tmnxDcpCardVrtrIfEventOvrflw, tmnxPkiCAProfActnStatusChg, tmnxCpmProtViolSapOutProf, tmnxCpmProtViolIfOutProf, sysDNSSecFailedAuthentication, tmnxCpmProtExcdSdpBindIp, tmnxSecComputeCertChainFailure, tmnxCpmProtViolSdpBindOutProf, tmnxSecNotifKeyChainExpired, tmnxSysLicenseInvalid, tmnxSysLicenseExpiresSoon, tmnxPkiCAProfRevokeChkWarning, tmnxCAProfUpDueToRevokeChkCrlOpt, tmnxPkiCertBeforeExpWarning, tmnxPkiCertAfterExpWarning, tmnxPkiCertExpWarningCleared, tmnxPkiCRLBeforeExpWarning, tmnxPkiCRLAfterExpWarning, tmnxPkiCRLExpWarningCleared, tmnxSecNotifFileReloaded, tmnxSysLicenseValid, tmnxSecPwdHistoryFileLoadFailed, tmnxSecPwdHistoryFileWriteFailed,

	tmnxPkiCAProfCrlUpdateStart, tmnxPkiCAProfCrlUpdateSuccess, tmnxPkiCAProfCrlUpdateUrlFail, tmnxPkiCAProfCrlUpdAllUrlsFail, tmnxPkiFileWriteFailed, tmnxPkiCAProfCrlUpdNoNxtUpdTime, tmnxUsrProfSessionLimitExceeded, tmnxCliGroupSessionLimitExceeded, tmnxPkiCAProfCrlUpdLargPreUpdTm, tmnxPkiCertNotYetValid, tmnxPkiCRLNotYetValid, tmnxAppPkiCertVerificationFailed, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts, tmnxSysLicenseActivated, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, radiusUserProfileInvalid, tmnxSysStandbyLicensingError, tmnxSysStandbyLicensingReady, md_cli_io, md_cli_unauth_io
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events security event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events security event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events security event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events security event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events security event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events security event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events security event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

sflow event *keyword*

Context	**configure log log-events**
Description	Enter the sflow context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events sflow event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxSflowCpEntrySampling, tmnxSflowPacketTxFailure
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events sflow event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events sflow event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events sflow event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events sflow event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events sflow event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events sflow event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events sflow event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

snmp event *keyword*

Context	**configure log log-events**
Description	Enter the snmp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events snmp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	coldStart, warmStart, authenticationFailure, linkDown, linkUp, risingAlarm, fallingAlarm, snmpdError
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events snmp event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events snmp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events snmp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events snmp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events snmp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events snmp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events snmp event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

stp event *keyword*

Context	**configure log log-events**
Description	Enter the stp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events stp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	topologyChangeSapMajorState, newRootSap, topologyChangeVcpState, newRootVcpState, topologyChangeSapState, receivedTCN, newRootBridge, unacknowledgedTCN, higherPriorityBridge, sapEncapPVST, sapEncapDot1d, tmnxSvcTopoChgSdpBindMajorState, tmnxSvcNewRootSdpBind, tmnxSvcTopoChgSdpBindState, tmnxSvcSdpBindRcvdTCN, tmnxSvcSdpBindRcvdHigherBriPrio, tmnxSvcSdpBindEncapPVST, tmnxSvcSdpBindEncapDot1d, tmnxNewCistRegionalRootBridge, tmnxNewMstiRegionalRootBridge, tmnxStpRootGuardViolation, tmnxStpMeshNotInMstRegion, tmnxSapStpExcepCondStateChng, tmnxSdpBndStpExcepCondStateChng, sapActiveProtocolChange, tmnxSvcSdpActiveProtocolChange, vcpActiveProtocolChange, topologyChangePipMajorState, topologyChangePipState, tmnxPipStpExcepCondStateChng, pipActiveProtocolChange
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events stp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events stp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events stp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events stp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events stp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events stp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events stp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

svcmgr event *keyword*

Context	**configure log log-events**
Description	Enter the svcmgr context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events svcmgr event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	svcTlsMacPinningViolation, tmnxSubSlaacOverride, svcEvpnMplsMacMoveExceedNonBlock, svcTlsVxInstReplicatorChgd, svcArpHostOverride, svcEvpnMHEsEviDFStateChgd, svcEvpnMHEsIsidDFStateChgd, svcEvpnRcvdProtSrcMac, svcBgpEvpnBHDupMacAddrsDetected, svcTlsVxlanReplicatorChgd, svcEvpnEtreeBumLabelSysHiUsgSet, svcEvpnEtreeBumLabelSysHiUsgClr, svcVxlanEvpnMplsDestSysHiUsgSet, svcVxlanEvpnMplsDestSysHiUsgClr, svcStatusChanged, svcTlsFdbTableFullAlarmRaised, svcTlsFdbTableFullAlarmCleared, svcSysEvpnESDfPrefOperValChange, tmnxSvcSysFdbTableHighUsgSet, iesIfStatusChanged, tmnxEndPointTxActiveChanged, tmnxSvcSysFdbTableHighUsgClr, svcEvpnMHStandbyStatusChg, svcTlsMrpAttrRegistrationFailed, svcTlsMrpAttrTblFullAlarmRaised, svcTlsMrpAttrTblFullAlarmCleared, svcEpipePbbOperStatusChanged, sapStatusChanged, sapTlsMacAddrLimitAlarmRaised, sapTlsMacAddrLimitAlarmCleared, hostConnectivityLost, hostConnectivityRestored, sapReceivedProtSrcMac, sapTlsMacMoveExceeded, sapPortStateChangeProcessed, sapCemPacketDefectAlarm, sapCemPacketDefectAlarmClear, msapStateChanged, msapCreationFailure, sapTlsMacMoveExceedNonBlock, sapEthLoopbackStarted, sapEthLoopbackStopped, sapTunnelEncapIpMtuTooSmall, tmnxIpTunnelOperStateChange, sapIfIgnorePortStateStart, sapIfIgnorePortStateStop, sdpStatusChanged,

sdpBindStatusChanged, sdpKeepAliveStarted, sdpKeepAliveStopped, sdpKeepAliveProbeFailure, sdpKeepAliveLateReply, sdpTlsMacAddrLimitAlarmRaised, sdpTlsMacAddrLimitAlarmCleared, sdpBindPwPeerStatusBitsChanged, sdpBindTlsMacMoveExceeded, sdpBindPwPeerFaultAddrChanged, sdpBindSdpStateChangeProcessed, sdpBandwidthOverbooked, sdpBindInsufficientBandwidth, dynamicSdpConfigChanged, dynamicSdpBindConfigChanged, dynamicSdpCreationFailed, dynamicSdpBindCreationFailed, sdpEgrIfsNetDomInconsCntChanged, sdpBindIpipeCeIpAddressChange, sdpBindReceivedProtSrcMac, sdpBindPwLocalStatusBitsChanged, sdpBindTlsMacMoveExceedNonBlock, sdpBindEthLoopbackStarted, sdpBindEthLoopbackStopped, sdpPbbActvPwWithNonActvCtrlPwChg, svcBgpEvpnDupMacAddrsDetected, svcBgpEvpnDupMacAddrsCleared, svcTlsDupVTEPEgrVNIDetected, svcTlsDupVTEPEgrVNICleared, svcTlsVTEPHiUsageAlarmRaised, svcTlsVTEPHiUsageAlarmCleared, svcTlsVTEPEgrVniSysHiUsgAlarmSet, svcTlsVTEPEgrVniSysHiUsgAlarmClr, svcTlsVTEPEgrVniSvcHiUsgAlarmSet, svcTlsVTEPEgrVniSvcHiUsgAlarmClr, svcBindSysHiUsageAlarmRaised, svcBindSysHiUsageAlarmCleared, sdpControlPwActiveStateChg, svcTlsProxyArpDupDetect, svcTlsProxyArpDupClear, svcTlsProxyNdDupDetect, svcTlsProxyNdDupClear, svcTlsEvpnTunnNHopHiUsgAlarmSet, svcTlsEvpnTunnNHopHiUsgAlarmClr, svcEvpnMplsTEPHiUsageRaised, svcEvpnMplsTEPHiUsageCleared, svcEvpnMplsTEPEgrBndSysHiUsgSet, svcEvpnMplsTEPEgrBndSysHiUsgClr, svcEvpnMplsTEPEgrBndSvcHiUsgSet, svcEvpnMplsTEPEgrBndSvcHiUsgClr, svcTlsProxyArpSysHiUsgSet, svcTlsProxyArpSysHiUsgClr, svcTlsProxyArpSvcHiUsgSet, svcTlsProxyArpSvcHiUsgClr, svcTlsProxyNdSysHiUsgSet, svcTlsProxyNdSysHiUsgClr, svcTlsProxyNdSvcHiUsgSet, svcTlsProxyNdSvcHiUsgClr, svcSiteMinDnTimerStateChg, svcTlsMfibTableFullAlarmRaised, svcTlsMfibTableFullAlarmCleared, tmnxSubscriberCreated, tmnxSubscriberDeleted, tmnxSubscriberRenamed, tmnxSubAcctPlcyFailure, tmnxSubMcsRelatedProblem, tmnxSubAuthPlcyRadSerOperStatChg, tmnxSubAcctPlcyRadSerOperStatChg, svcEndPointMacLimitAlarmRaised, svcEndPointMacLimitAlarmCleared, tmnxSubRadSapDisconnectError, tmnxSubRadSdpBndDisconnectError, tmnxSubRadSapCoAError, tmnxSubRadSdpBndCoAError, tmnxSubRadSapSubAuthError, tmnxSubRadSdpBndSubAuthError, svcFdbMimDestTblFullAlrm, svcFdbMimDestTblFullAlrmCleared, svcPersistencyProblem, svcArpHostPopulateErr, svcEPMCEPConfigMismatch, svcEPMCEPConfigMismatchResolved, svcEPMCEPPassiveModeActive, svcEPMCEPPassiveModePassive, sapHostBGPPeeringSetupFailed, tmnxSubUserCategoryOutOfCredit, svcRestoreHostProblem, tmnxSubUserCategoryRefreshCredit, tmnxSubUserCategoryError, svcTlsSiteDesigFwdrChg, sapTlsDataSapInstStatusChgd, svcTlsGroupOperStatusChanged, sapTunnelStateChange, tmnxSubHostInconsistentAtmTdOvr, sapAtmPppSessionFailure, sapAtmPppNcpFailure, svcMSPwRtMisconfig, svcOperGrpOperStatusChanged, sapIpipeCeIpAddrChange, svcMSPwRetryExpiredNotif, svcVllSiteDesigFwdrChg, tmnxSubSlaacSetupFailure, tmnxIpTunnelOperRemIpChg, tmnxSubHostLcktLimitReached, tmnxSubHostLcktSapLimitReached, tmnxSubSysChassMemoryUsageHi, tmnxSubVSubnetHostsDeleted, sapHostRipListenerSetupFailed, tmnxSubIpoeInvalidSessionKey, tmnxSubIpoeInvalidCidRidChange,

tmnxSubIpoeSessionLimitReached, tmnxSubIpoePersistenceRecovery, tmnxSubIpoeMigrHostDeleted, tmnxSubMngdHostCreationFail, tmnxSubMngdHostOverride, tmnxSubHostInfoConflict, tmnxSubPlBndFailed, tmnxSubBrgCreated, tmnxSubBrgDeleted, tmnxSubBrgCvInitFailed, tmnxSubBrgRadiusUpdateIpoeSeFail, tmnxSubBrgRadiusCoaError, tmnxSubBrgRadiusAuthError, tmnxSubBrgSessionLimitReached, tmnxSubStatsResourceLimitReached, tmnxSubDhcpOverloadDetected, aluIpTransportStateChanged, tmnxSubBrgRadiusProxyAuthError, tmnxSubIpoeSessionBrgNotAuth, tmnxSubRadiusCoaNatFwdFailed, tmnxSubSVlanStatsReachedMaximum, svcTlsVxInstMacAdrLimitAlrmRsd, svcTlsVxInstMacAdrLimitAlrmClrd

Introduced 16.0.R1

Notes This element is part of a list key

generate *boolean*

Context **configure log log-events svcmgr event** *keyword*

Description Generate log events of this type and increment the event counter

Introduced 16.0.R1

repeat *boolean*

Context **configure log log-events svcmgr event** *keyword*

Description The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.

Default false

Introduced 16.0.R1

severity *keyword*

Context **configure log log-events svcmgr event** *keyword*

Description Severity level associated with event type

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

specific-throttle *boolean*

Context **configure log log-events svcmgr event** *keyword*

Description Use parameters that throttle this specific event

Introduced 16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events svcmgr event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events svcmgr event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events svcmgr event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

system event *keyword*

Context	**configure log log-events**
Description	Enter the system context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events system event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	stiDateAndTimeChanged, ssiSaveConfigSucceeded, ssiSaveConfigFailed, sbiBootConfig, sbiBootSnmpd, tmnxConfigModify, tmnxConfigCreate, tmnxConfigDelete, tmnxStateChange, tmnxModuleMallocFailed, tmnxTrapDropped, ssiSyncConfigOK, ssiSyncConfigFailed, ssiSyncBootEnvOK, ssiSyncBootEnvFailed, socket_bind_failed, socket_conn_accept_failed, sntpTimeDiffExceedsThreshold, tmnxSssiMismatch, tmnxSnmpdStateChange, tmnxRedStandbySyncing, tmnxRedStandbyReady, tmnxRedStandbySyncLost, tmnxRedSwitchover, tmnxRedCpmActive, tmnxRedSingleCpm, persistencyClosedAlarmRaised, persistencyClosedAlarmCleared, tmnxSntpOperChange, tmnxFtpClientFailure, persistencyEventReport, sbiBootConfigFailFileError, sbiBootConfigOKFileError, persistenceRestoreProblem, tmnxSysRollbackStarted, tmnxSysRollbackStatusChange, tmnxSysRollbackSaveStatusChange,

tmnxSysRollbackFileDeleteStatus, ssiSyncRollbackOK, ssiSyncRollbackFailed, ssiSyncCertOK, ssiSyncCertFailed, persistencyFileSysThresRaised, persistencyFileSysThresCleared, tmnxSysExecStarted, tmnxSysExecFinished, tmnxSysRollbackSaveStarted, tmnxSysRollbackDeleteStarted, tmnxSysNvsysFileError, tmnxConfigConflict, tmnxSysVsdServerAvailable, tmnxSysVsdServerUnavailable, tmnxSysXmppServerFunctional, tmnxSysXmppServerNotFunctional, tmnxSysBaseMacAddressNotSet, tmnxSmLaunchStartFailed, tmnxEhsHandlerInvoked, tmnxEhsDroppedByMinDelay, tmnxSysAppStats24HrsAvailable, tmnxSysAppStatsWeekAvailable, tmnxSysMgmtIfModeChangeStart, tmnxSysMgmtIfModeChangeComplete, tmnxSysMgmtIfModeChangeFailure, schedActionFailure, smScriptAbort, smScriptResult, smScriptException

Introduced 16.0.R1

Notes This element is part of a list key

generate *boolean*

Context **configure log log-events system event** *keyword*

Description Generate log events of this type and increment the event counter

Introduced 16.0.R1

repeat *boolean*

Context **configure log log-events system event** *keyword*

Description The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.

Default false

Introduced 16.0.R1

severity *keyword*

Context **configure log log-events system event** *keyword*

Description Severity level associated with event type

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

specific-throttle *boolean*

Context **configure log log-events system event** *keyword*

Description Use parameters that throttle this specific event

Introduced 16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events system event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events system event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events system event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

user event *keyword*

Context	**configure log log-events**
Description	Enter the user context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events user event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	cli_user_login, cli_user_logout, cli_user_login_failed, cli_user_login_max_attempts, ftp_user_login, ftp_user_logout, ftp_user_login_failed, ftp_user_login_max_attempts, cli_user_io, snmp_user_set, cli_config_io, cli_unauth_user_io, cli_unauth_config_io, grpc_user_login, grpc_user_logout, grpc_user_login_failed, grpc_user_login_max_attempts, netconf_user_login, netconf_user_logout, netconf_user_login_failed, netconf_user_login_max_attempts
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events user event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events user event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events user event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events user event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events user event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events user event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events user event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

video event *keyword*

Context	**configure log log-events**
Description	Enter the video context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events video event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxVdoDuplicateSsrcId, tmnxVdoMdaSessionsLimitExceeded, tmnxVdoMdaSGLimitExceeded, tmnxVdoMdaSessionsLimitCleared, tmnxVdoMdaSGLimitCleared, tmnxVdoAdSpliceAbort, tmnxVdoClientSessionsLmtExceeded, tmnxVdoClientSessionsLmtCleared, tmnxVdoGrpSrcAnlyzrErrState, tmnxVdoGrpSrcAnlyzrStClear, tmnxVdoMdaFccBwLimitExceeded, tmnxVdoMdaFccBwLimitCleared, tmnxVdoMdaRetBwLimitExceeded, tmnxVdoMdaRetBwLimitCleared, tmnxVdoMdaFccRetTotBwLmtExceeded, tmnxVdoMdaFccRetTotBwLmtCleared, tmnxVdoMdaFccSesLimitExceeded, tmnxVdoMdaFccSesLimitCleared, tmnxVdoMdaRetSesLimitExceeded, tmnxVdoMdaRetSesLimitCleared, tmnxVdoMdaFccRetTotSeLmtExceeded, tmnxVdoMdaFccRetTotSeLmtCleared
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events video event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events video event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events video event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events video event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events video event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events video event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events video event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

vrrp event *keyword*

Context	**configure log log-events**
Description	Enter the vrrp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events vrrp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	vrrpTrapNewMaster, vrrpTrapAuthFailure, tmnxVrrpIPListMismatch, tmnxVrrpIPListMismatchClear, tmnxVrrpMultipleOwners, tmnxVrrpBecameBackup, vrrpPacketDiscarded, tmnxVrrpBfdIntfSessStateChgd, vrrpTrapProtoError, tVrrpBecameBackup, tVrrpTrapNewMaster, tVrrpIPListMismatch, tVrrpIPListMismatchClear, tVrrpMultipleOwners, tVrrpPacketDiscarded, tVrrpRouterAdvNotActivated, tVrrpRouterAdvNotActivatedClear, tVrrpOperDownInvalidMac, tVrrpOperDownInvalidMacClear, tmnxVrrpOperDownInvalidMac, tmnxVrrpOperDownInvalidMacClear
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events vrrp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events vrrp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events vrrp event** *keyword*
Description	Severity level associated with event type
Default	minor
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events vrrp event** *keyword*
Description	Use parameters that throttle this specific event
Default	false
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events vrrp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events vrrp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events vrrp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

vrtr event *keyword*

Context	**configure log log-events**
Description	Enter the vrtr context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events vrtr event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxVRtrMidRouteTCA, tmnxVRtrHighRouteTCA, tmnxVRtrHighRouteCleared, tmnxVRtrMcastMidRouteTCA, tmnxVRtrMcastMaxRoutesTCA, tmnxVRtrMcastMaxRoutesCleared, tmnxVRtrMaxArpEntriesTCA, tmnxVRtrMaxArpEntriesCleared, tmnxVRtrMaxRoutes, tmnxVRtrBfdMaxSessionOnSlot, tmnxVRtrBfdPortTypeNotSupported, tmnxVRtrIPv6MidRouteTCA, tmnxVRtrIPv6HighRouteTCA, tmnxVRtrIPv6HighRouteCleared, tmnxVRtrStaticRouteCPEStatus, tmnxVRtrManagedRouteAddFailed, tmnxVRtrFibOccupancyThreshold, tmnxVRtrInetAddressAttachFailed, tmnxVRtrSingleSfmOverloadStateCh, tmnxVRtrGrtExportLimitReached, tmnxVRtrGrtRoutesExpLimitDropped, tmnxVRtrIfLdpSyncTimerStart, tmnxVRtrIfLdpSyncTimerStop, tmnxVRtrGrtV6ExportLimitReached, tmnxVRtrGrtV6RoutesExpLimDropped, tmnxVRtrStaticRouteStatusChanged, tmnxVRtrBfdSessExtDown, tmnxVRtrBfdSessExtUp, tmnxVRtrBfdSessExtDeleted, tmnxVRtrBfdSessExtProtChange, tmnxVRtrBfdExtNoCpmNpResources, tmnxVRtrDnsFault, tmnxVRtrMacAcctLimitReached, tmnxVRtrMacAcctLimitCleared, tmnxVRtrNgBfdSessDown, tmnxVRtrNgBfdSessUp, tmnxVRtrNgBfdSessDeleted, tmnxVRtrNgBfdSessProtChange, tmnxVRtrNgBfdNoCpmNpResources,

	tmnxVRtrNHRvplsARPHighUsage, tmnxVRtrNHRvplsARPExhaust, tmnxVRtrNHRvplsARPHighUsageClr, tmnxVRtrArpLmt, tmnxVRtrArpThresholdExceeded, tmnxVRtrIpv6NbrLmt, tmnxVRtrIpv6NbrThresholdExceeded, tmnxVRtrIfIgnorePortState, tmnxVRtrPdnAddrMismatch, tmnxVRtrPdnAddrMismatchCleared, tmnxVRtrLeakExportLimitReached, tmnxVRtrLeakExportLimitDropped
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events vrtr event** *keyword*
Description	Generate log events of this type and increment the event counter
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events vrtr event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events vrtr event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events vrtr event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events vrtr event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events vrtr event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events vrtr event** *keyword*
Description	Throttle log events of this type
Introduced	16.0.R1

wlan-gw event *keyword*

Context	**configure log log-events**
Description	Enter the wlan-gw context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxWlanGwResrcProblemDetected, tmnxWlanGwResrcProblemCause, tmnxWlanGwTuQosProblem, tmnxWlanGwGrpOperStateChanged, tmnxWlanGwIomActive, tmnxWlanGwMgwConnected, tmnxWlanGwMgwRestarted, tmnxWlanGwNumMgwHi, tmnxWlanGwMgwStateChanged, tmnxWlanGwQosRadiusGtpMismatch, tmnxWlanGwSubIfRedActiveChanged, tmnxWlanGwDsmGtpTunnelSetupFail, tmnxWlanGwSubIfPmStartD6cFailed, tmnxWlanGwSubIfPmNewPlReqFailed, tmnxWlanGwSubIfPmAddNewPlFailed, tmnxWlanGwSubIfPmCrIntObjFailed,

	tmnxWlanGwSubIfPmPoolTimeout, tmnxWlanGwSubIfPmPoolUsageLow, tmnxWlanGwSubIfPmLsQryRtryFailed, tmnxWlanGwGtpMessageDropped, tmnxWlanGwSubIfPmPoolPartialUse, tmnxWlanGwBdCreated, tmnxWlanGwBdDeleted, tmnxWlanGwUeCreationFail, tmnxWlanGwUeReplacement, tmnxWlanGwGrpMemberUsageHigh
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events wlan-gw event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events wlan-gw event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

wpp event *keyword*

Context	**configure log log-events**
Description	Enter the wpp context
Introduced	16.0.R1

event *keyword*

Context	**configure log log-events wpp event** *keyword*
Description	Specific log event as a trigger for one or more EHS handlers
Options	tmnxWppPortalStatChanged, tmnxWppHostAuthenticationFailed, tmnxWppPortalUnreachable, tmnxWppPortalGroupStatChanged
Introduced	16.0.R1
Notes	This element is part of a list key

generate *boolean*

Context	**configure log log-events wpp event** *keyword*
Description	Generate log events of this type and increment the event counter
Default	true
Introduced	16.0.R1

repeat *boolean*

Context	**configure log log-events wpp event** *keyword*
Description	The value of repeat determines whether or not events of this type will be repeated. When it has a value of 'true', the event is repeated. When it has a value of 'false', repeating is stopped.
Default	false
Introduced	16.0.R1

severity *keyword*

Context	**configure log log-events wpp event** *keyword*
Description	Severity level associated with event type
Options	cleared, indeterminate, critical, major, minor, warning
Introduced	16.0.R1

specific-throttle *boolean*

Context	**configure log log-events wpp event** *keyword*
Description	Use parameters that throttle this specific event
Introduced	16.0.R1

specific-throttle-interval *number*

Context	**configure log log-events wpp event** *keyword*
Description	Duration of the event specific throttling interval
Range	1 to 1200
Introduced	16.0.R1

specific-throttle-limit *number*

Context	**configure log log-events wpp event** *keyword*
Description	Times that this event can be logged within the specific throttle interval
Range	1 to 20000
Introduced	16.0.R1

throttle *boolean*

Context	**configure log log-events wpp event** *keyword*
Description	Throttle log events of this type
Default	true
Introduced	16.0.R1

log-id [id] *number*

Context	**configure log**
Description	Enter the log-id context
Max. Elements	30
Introduced	16.0.R1

[id] *number*

Context	**configure log log-id** *number*
Description	The value of id uniquely identifies an event stream log.
Range	1 to 101
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure log log-id** *number*
Description	Administrative state of the log
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure log log-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination

Context	**configure log log-id** *number*
Description	Enter the destination context
Introduced	16.0.R1

cli

Context	**configure log log-id** *number* **destination**
Description	Enter the **cli** context
Introduced	16.0.R1

max-entries *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination cli**
Description	Number of events stored in this CLI log
Range	50 to 3000
Default	100
Introduced	16.0.R1
Notes	This element is part of a choice

console



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination**
Description	Log events to send to the system console port
Introduced	16.0.R1
Notes	This element is part of a choice

file *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination**
Description	Log events to send to the specified file ID
Reference	configure **log file** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

memory

Context	**configure log log-id** *number* **destination**
Description	Enter the **memory** context
Introduced	16.0.R1

max-entries *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination memory**
Description	Number of events stored in this memory log
Range	50 to 3000
Default	100
Introduced	16.0.R1
Notes	This element is part of a choice

netconf

Context	**configure log log-id** *number* **destination**
Description	Enter the **netconf** context
Introduced	16.0.R1

max-entries *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination netconf**
Description	Number of events stored in this NETCONF log
Range	50 to 3000
Default	100
Introduced	16.0.R1
Notes	This element is part of a choice

snmp

Context	**configure log log-id** *number* **destination**
Description	Enter the **snmp** context
Introduced	16.0.R1

max-entries *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination snmp**
Description	Number of events stored in this SNMP log
Range	50 to 3000
Default	100
Introduced	16.0.R1
Notes	This element is part of a choice

syslog *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure log log-id** *number* **destination**
Description	Log events to send to the specified syslog ID
Reference	configure **log syslog** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

filter *string*

Context	**configure log log-id** *number*
Description	Filter for this log's source event stream to limit the event output in this log destination
Reference	configure **log filter** *number*
Introduced	16.0.R1

netconf-stream *string*

Context	**configure log log-id** *number*
Description	Destination NETCONF stream name
String Length	1 to 32
Introduced	16.0.R1

python-policy *string*

Context	**configure log log-id** *number*
Description	Python policy name
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

source

Context	**configure log log-id** *number*
Description	Enter the source context
Introduced	16.0.R1

change *boolean*

Context **configure log log-id** *number* **source**

Description All events in the activity stream to be sent to specific destination

Introduced 16.0.R1

debug *boolean*

Context **configure log log-id** *number* **source**

Description All debug-trace events in the debug stream to be sent to specific destination

Default false

Introduced 16.0.R1

main *boolean*

Context **configure log log-id** *number* **source**

Description All events in the main stream to be sent to specific destination

Introduced 16.0.R1

security *boolean*

Context **configure log log-id** *number* **source**

Description All events in the security event stream to be sent to specific destination

Introduced 16.0.R1

time-format *keyword*

Context **configure log log-id** *number*

Description Timestamp format for events sent to logs which have a value of either syslog, or file

Default utc

Options utc, local

Introduced 16.0.R1

route-preference

Context **configure log**

Description Enter the route-preference context

Introduced 16.0.R1

primary *keyword*

Context	**configure log route-preference**
Description	Primary routing preference for traffic that is generated for SNMP notifications and syslog messages
Default	outband
Options	inband, outband
Introduced	16.0.R1

secondary *keyword*

Context	**configure log route-preference**
Description	Secondary routing preference for traffic that is generated for SNMP notifications and syslog messages
Default	inband
Options	inband, outband, none
Introduced	16.0.R1

snmp-trap-group [log-id] *number*

Context	**configure log**
Description	Enter the snmp-trap-group context
Max. Elements	15
Introduced	16.0.R1

[log-id] *number*

Context	**configure log snmp-trap-group** *number*
Description	SNMP notification group associated with the event log
Range	1 to 100
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure log snmp-trap-group** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

trap-target [name] *string*

Context	**configure log snmp-trap-group** *number*
Description	Enter the trap-target context
Max. Elements	25
Introduced	16.0.R1

[name] *string*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	Name for an SNMP notification destination within the SNMP notification group
String Length	1 to 28
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	IP address attribute for the trap target
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

notify-community *string*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	SNMPv1 or SNMPv2c community name string, or SNMPv3 security name, for sending a notification
String Length	1 to 31
Introduced	16.0.R1
Notes	This element is mandatory

port *number*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	UDP port number to send messages to this remote SNMP notification collector
Range	0 | 1 to 65535
Default	162
Introduced	16.0.R1

replay *boolean*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	Retransmit missed notifications
Default	false
Introduced	16.0.R1

security-level *keyword*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	Security level at which SNMP notification messages are sent to SNMP notification collector
Default	no-auth-no-privacy
Options	no-auth-no-privacy, auth-no-privacy, privacy
Introduced	16.0.R1

version *keyword*

Context	**configure log snmp-trap-group** *number* **trap-target** *string*
Description	SNMP version to format notification messages sent to this SNMP notification collector
Default	snmpv3
Options	snmpv1, snmpv2c, snmpv3
Introduced	16.0.R1

syslog [syslog-id] *number*

Context	**configure log**
Description	Enter the syslog context
Introduced	16.0.R1

[syslog-id] *number*

Context	**configure log syslog** *number*
Description	Unique arbitrary identifier for this SYSLOG collector target
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure log syslog** *number*
Description	Target syslog host address
Introduced	16.0.R1

description *string*

Context	**configure log syslog** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

facility *keyword*

Context	**configure log syslog** *number*
Description	Facility code for messages
Default	local7
Options	kernel, user, mail, systemd, auth, syslogd, printer, netnews, uucp, cron, authpriv, ftp, ntp, logaudit, logalert, cron2, local0, local1, local2, local3, local4, local5, local6, local7
Introduced	16.0.R1

log-prefix (*keyword* | *string*)

Context	**configure log syslog** *number*
Description	String that is prepended to every log message sent to this target syslog host
String Length	1 to 32
Default	TMNX
Options	no-prefix
Introduced	16.0.R1

port *number*

Context	**configure log syslog** *number*
Description	UDP port to generate syslog messages
Range	0 | 1 to 65535
Default	514
Introduced	16.0.R1

severity *keyword*

Context	**configure log syslog** *number*
Description	Severity level threshold for the syslog message
Default	info
Options	emergency, alert, critical, error, warning, notice, info, debug
Introduced	16.0.R1

throttle-rate

Context	**configure log**
Description	Enter the throttle-rate context
Introduced	16.0.R1

interval *number*

Context	**configure log throttle-rate**
Description	Duration of an event throttling interval
Range	1 to 1200
Default	1
Introduced	16.0.R1

limit *number*

Context	**configure log throttle-rate**
Description	Number of log events within the throttle interval
Range	1 to 20000
Default	2000
Introduced	16.0.R1

18 macsec Commands

configure
- — **macsec**
  - — **connectivity-association** *string*
    - — **admin-state** *keyword*
    - — **cipher-suite** *keyword*
    - — **clear-tag-mode** *keyword*
    - — **description** *string*
    - — **encryption-offset** *number*
    - — **macsec-encrypt** *boolean*
    - — **replay-protection** *boolean*
    - — **replay-window-size** *number*
    - — **static-cak**
      - — **active-psk** *number*
      - — **mka-key-server-priority** *number*
      - — **pre-shared-key** *number*
        - — **cak** *encrypted-leaf-hex-without-prefix*
        - — **cak-name** *string*
        - — **encryption-type** *keyword*
  - — **mac-policy** *number*
    - — **destination-mac-address** *mac-address*

18.1 macsec Command Descriptions

macsec

Context	**configure**
Description	Enter the macsec context
Introduced	16.0.R1

connectivity-association [ca-name] *string*

Context	**configure macsec**
Description	Enter the connectivity-association context
Introduced	16.0.R1

[ca-name] *string*

Context	**configure macsec connectivity-association** *string*
Description	Connectivity association name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure macsec connectivity-association** *string*
Description	Administrative state of this CA
Default	disable
Options	enable, disable
Introduced	16.0.R1

cipher-suite *keyword*

Context	**configure macsec connectivity-association** *string*
Description	Datapath encryption protocol
Default	gcm-aes-128
Options	gcm-aes-128, gcm-aes-256, gcm-aes-xpn-128, gcm-aes-xpn-256
Introduced	16.0.R1

clear-tag-mode *keyword*

Context	**configure macsec connectivity-association** *string*
Description	Clear tag mode
Default	none
Options	none, single-tag, dual-tag
Introduced	16.0.R1

description *string*

Context	**configure macsec connectivity-association** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

encryption-offset *number*

Context	**configure macsec connectivity-association** *string*
Description	Offset of the encryption in MACsec packet
Range	0 | 30 | 50
Default	0
Introduced	16.0.R1

macsec-encrypt *boolean*

Context	**configure macsec connectivity-association** *string*
Description	Encrypt all PDUs and authenticate (ICV payload)
Default	true
Introduced	16.0.R1

replay-protection *boolean*

Context	**configure macsec connectivity-association** *string*
Description	Discard packet that is not within the replay window size
Default	false
Introduced	16.0.R1

replay-window-size *number*

Context	**configure macsec connectivity-association** *string*
Description	Size of the replay protection window
Range	0 to 4294967294
Default	0
Introduced	16.0.R1

static-cak

Context	**configure macsec connectivity-association** *string*
Description	Enter the static-cak context
Introduced	16.0.R1

active-psk *number*

Context	**configure macsec connectivity-association** *string* **static-cak**
Description	Value of the pre-shared-key (PSK)
Range	1 to 2
Default	1
Introduced	16.0.R1

mka-key-server-priority *number*

Context	**configure macsec connectivity-association** *string* **static-cak**
Description	Key server priority used by the MKA protocol
Range	0 to 255
Default	16
Introduced	16.0.R1

pre-shared-key [psk-id] *number*

Context	**configure macsec connectivity-association** *string* **static-cak**
Description	Enter the pre-shared-key context
Max. Elements	2
Introduced	16.0.R1

[psk-id] *number*

Context	**configure macsec connectivity-association** *string* **static-cak pre-shared-key** *number*
Description	Value of the pre-shared-key (PSK)
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

cak *encrypted-leaf-hex-without-prefix*

Context	**configure macsec connectivity-association** *string* **static-cak pre-shared-key** *number*
Description	Connectivity association key (CAK) for a pre-shared key
String Length	1 to 70
Introduced	16.0.R1

cak-name *string*

Context	**configure macsec connectivity-association** *string* **static-cak pre-shared-key** *number*
Description	Connectivity Association Key (CAK) name for the PSK
String Length	1 to 64
Introduced	16.0.R1

encryption-type *keyword*

Context	**configure macsec connectivity-association** *string* **static-cak pre-shared-key** *number*
Description	Encryption for authentication of the MKA packet
Options	aes-128-cmac, aes-256-cmac
Introduced	16.0.R1
Notes	This element is mandatory

mac-policy [mac-policy-id] *number*

Context	**configure macsec**
Description	Enter the **mac-policy** context
Introduced	16.0.R5

[mac-policy-id] *number*

Context	**configure macsec mac-policy** *number*
Description	The ID of the mac policy.
Introduced	16.0.R5
Notes	This element is part of a list key

destination-mac-address [dest-mac-addr] *mac-address*

Context	**configure macsec mac-policy** *number*
Description	Enter the **destination-mac-address** context
Introduced	16.0.R5

[dest-mac-addr] *mac-address*

Context	**configure macsec mac-policy** *number* **destination-mac-address** *mac-address*
Description	The destination mac address to be added to the policy.
Introduced	16.0.R5
Notes	This element is part of a list key

19 mcac Commands

configure
- **mcac**
  - **interface-policy** *string*
    - **admin-state** *keyword*
    - **bandwidth**
      - **mandatory** (*number* | *keyword*)
      - **total** (*number* | *keyword*)
    - **description** *string*
  - **policy** *string*
    - **bundle** *string*
      - **admin-state** *keyword*
      - **bandwidth** *number*
      - **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
        - **bandwidth** *number*
        - **priority-class** *keyword*
        - **type** *keyword*
      - **description** *string*
      - **mc-constraints**
        - **lag-port-down** *number* **number-down** *number*
          - **level** *number*
        - **level** *number*
          - **bandwidth** *number*
        - **use-lag-port-weight** *boolean*
    - **default-action** *keyword*
    - **description** *string*

19.1 mcac Command Descriptions

mcac

Context	**configure**
Description	Enter the mcac context
Introduced	16.0.R1

interface-policy [policy-name] *string*

Context	**configure mcac**
Description	Enter the interface-policy context
Introduced	16.0.R1

[policy-name] *string*

Context	**configure mcac interface-policy** *string*
Description	Policy name for multicast CAC interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure mcac interface-policy** *string*
Description	Administrative state of the multicast CAC interface policy
Default	enable
Options	enable, disable
Introduced	16.0.R1

bandwidth

Context	**configure mcac interface-policy** *string*
Description	Enter the bandwidth context
Introduced	16.0.R1

mandatory (*number* | *keyword*)

Context **configure mcac interface-policy** *string* **bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure mcac interface-policy** *string* **bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

description *string*

Context **configure mcac interface-policy** *string*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

policy [policy-name] *string*

Context **configure mcac**

Description Enter the policy context

Introduced 16.0.R1

[policy-name] *string*

Context **configure mcac policy** *string*

Description Multicast CAC policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

bundle [bundle-name] *string*

Context	**configure mcac policy** *string*
Description	Enter the bundle context
Max. Elements	64
Introduced	16.0.R1

[bundle-name] *string*

Context	**configure mcac policy** *string* **bundle** *string*
Description	Name for the Multicast CAC policy bundle
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure mcac policy** *string* **bundle** *string*
Description	Administrative state of the bundle
Default	disable
Options	enable, disable
Introduced	16.0.R1

bandwidth *number*

Context	**configure mcac policy** *string* **bundle** *string*
Description	Maximum bandwidth for this bundle
Range	1 to 4294967295
Default	100
Introduced	16.0.R1

channel start (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure mcac policy** *string* **bundle** *string*
Description	Enter the channel context
Introduced	16.0.R1

start (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure mcac policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
Description	Beginning multicast IP address
Introduced	16.0.R1
Notes	This element is part of a list key

end (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure mcac policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
Description	Ending multicast IP address
Introduced	16.0.R1
Notes	This element is part of a list key

source (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure mcac policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
Description	Source prefix
Introduced	16.0.R1
Notes	This element is part of a list key

bandwidth *number*

Context	**configure mcac policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
Description	Bandwidth required by this channel
Range	10 to 10000000
Default	10
Introduced	16.0.R1

priority-class *keyword*

Context	**configure mcac policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
Description	Classification of channels used in the algorithm when LAG ports change state
Default	low
Options	low, high
Introduced	16.0.R1

type *keyword*

Context	**configure mcac policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source** (*ipv4-prefix* | *ipv6-prefix*)
Description	Channel type to be either mandatory or optional
Default	optional
Options	optional, mandatory
Introduced	16.0.R1

description *string*

Context	**configure mcac policy** *string* **bundle** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

mc-constraints

Context	**configure mcac policy** *string* **bundle** *string*
Description	Enter the mc-constraints context
Introduced	16.0.R1

lag-port-down [lag-id] *number* **number-down** *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints**
Description	Enter the lag-port-down context
Introduced	16.0.R1

[lag-id] *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints lag-port-down** *number* **number-down** *number*
Description	LAG ID
Range	1 to 800
Introduced	16.0.R1
Notes	This element is part of a list key

number-down *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints lag-port-down** *number* **number-down** *number*
Description	Number of lag ports that are down.
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints lag-port-down** *number* **number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

level [level-id] *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints**
Description	Enter the level context
Introduced	16.0.R1

[level-id] *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints level** *number*
Description	Bandwidth level ID for a multicast CAC constraint
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

bandwidth *number*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints level** *number*
Description	Bandwidth available for this level
Range	0 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure mcac policy** *string* **bundle** *string* **mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

default-action *keyword*

Context	**configure mcac policy** *string*
Description	Default action for this MCAC policy
Default	discard
Options	accept, discard
Introduced	16.0.R1

description *string*

Context	**configure mcac policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

20 mirror Commands

configure
- **mirror**
  - **mirror-dest** *service-name*
    - **admin-state** *keyword*
    - **description** *string*
    - **encap**
      - **layer-3-encap**
        - **direction-bit** *boolean*
        - **gateway**
          - **ip-address**
            - **destination** *ipv4-unicast-address*
            - **source** *ipv4-unicast-address*
          - **udp-port**
            - **destination** *number*
            - **source** *number*
        - **header-type** *keyword*
        - **router-instance** *string*
    - **endpoint** *string*
      - **description** *string*
      - **revert-time** (*number* | *keyword*)
    - **fc** *keyword*
    - **include-port-id** *boolean*
    - **pcap** *string*
      - **file-url** *ts-url*
    - **remote-source**
      - **far-end** *ipv4-address*
        - **icb** *boolean*
        - **ing-vc-label** *number*
        - **label-signaling** *keyword*
        - **vc-id** *number*
      - **spoke-sdp** *sdp-bind-id*
        - **admin-state** *keyword*
        - **control-word** *boolean*
        - **egress**
          - **vc-label** *number*
        - **endpoint**
          - **icb** *boolean*
          - **name** *string*
        - **ingress**
          - **l2tpv3**
            - **cookie**
              - **cookie1** *cookie-value*
              - **cookie2** *cookie-value*
          - **vc-label** *number*
    - **sap** *sap*
      - **egress**
        - **ip-mirror**
          - **mac**
            - **destination** *mac-address*
            - **source** *mac-unicast-address*

```
        — qos
            — sap-egress
                — policy-name string
                — port-redirect-group
                    — group-name string
                    — instance number
        — endpoint string
    — service-id number
    — slice-size number
    — spoke-sdp sdp-bind-id
        — admin-state keyword
        — control-word boolean
        — egress
            — l2tpv3
                — cookie cookie-value
            — vc-label number
        — endpoint
            — icb boolean
            — name string
            — precedence (number | keyword)
        — ingress
            — vc-label number
    — type keyword
```

20.1 mirror Command Descriptions

mirror

Context	**configure**
Description	Enter the mirror context
Introduced	16.0.R1

mirror-dest [service-name] *service-name*

Context	**configure mirror**
Description	Enter the mirror-dest context
Introduced	16.0.R1

[service-name] *service-name*

Context	**configure mirror mirror-dest** *service-name*
Description	Specify service name. Must start with a letter or be a number.
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure mirror mirror-dest** *service-name*
Description	Administrative state of the mirror destination service
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure mirror mirror-dest** *service-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

encap

Context	**configure mirror mirror-dest** *service-name*
Description	Enter the encap context
Introduced	16.0.R1

layer-3-encap

Context	**configure mirror mirror-dest** *service-name* **encap**
Description	Enter the layer-3-encap context
Introduced	16.0.R1

direction-bit *boolean*

Context	**configure mirror mirror-dest** *service-name* **encap layer-3-encap**
Description	Highest bit in Interception ID of shim header to show direction of mirrored traffic flow
Default	false
Introduced	16.0.R1

gateway

Context	**configure mirror mirror-dest** *service-name* **encap layer-3-encap**
Description	Enter the gateway context
Introduced	16.0.R1

ip-address

Context	**configure mirror mirror-dest** *service-name* **encap layer-3-encap gateway**
Description	Enter the ip-address context
Introduced	16.0.R1

destination *ipv4-unicast-address*

Context	**configure mirror mirror-dest** *service-name* **encap layer-3-encap gateway ip-address**
Description	IPv4 destination address for the gateway
Introduced	16.0.R1

source *ipv4-unicast-address*

Context **configure mirror mirror-dest** *service-name* **encap layer-3-encap gateway ip-address**

Description IPv4 source address for the gateway

Introduced 16.0.R1

udp-port

Context **configure mirror mirror-dest** *service-name* **encap layer-3-encap gateway**

Description Enter the udp-port context

Introduced 16.0.R1

destination *number*

Context **configure mirror mirror-dest** *service-name* **encap layer-3-encap gateway udp-port**

Description UDP destination port to use with this gateway

Range 0 | 1 to 65535

Default 0

Introduced 16.0.R1

source *number*

Context **configure mirror mirror-dest** *service-name* **encap layer-3-encap gateway udp-port**

Description UDP source port with this gateway

Range 0 | 1 to 65535

Default 0

Introduced 16.0.R1

header-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure mirror mirror-dest** *service-name* **encap layer-3-encap**

Description Header for the Layer 3 encapsulation

Options ip-udp-shim, ip-gre

Introduced 16.0.R1

Notes This element is mandatory

router-instance *string*

Context	**configure mirror mirror-dest** *service-name* **encap layer-3-encap**
Description	Router instance to use with routed encapsulation
Default	Base
Introduced	16.0.R1

endpoint [name] *string*

Context	**configure mirror mirror-dest** *service-name*
Description	Enter the endpoint context
Max. Elements	2
Introduced	16.0.R1

[name] *string*

Context	**configure mirror mirror-dest** *service-name* **endpoint** *string*
Description	Service endpoint name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure mirror mirror-dest** *service-name* **endpoint** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

revert-time (*number* | *keyword*)

Context	**configure mirror mirror-dest** *service-name* **endpoint** *string*
Description	Time before reverting back to primary spoke SDP defined after failing in backup spoke SDP
Default	immediate
Introduced	16.0.R1

fc *keyword*

Context	**configure mirror mirror-dest** *service-name*
Description	Forwarding class for destination traffic
Default	be
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1

include-port-id *boolean*

Context	**configure mirror mirror-dest** *service-name*
Description	Include port ID of the system in the packet
Default	false
Introduced	16.0.R1

pcap [session-name] *string*

Context	**configure mirror mirror-dest** *service-name*
Description	Enter the pcap context
Max. Elements	1
Introduced	16.0.R1

[session-name] *string*

Context	**configure mirror mirror-dest** *service-name* **pcap** *string*
Description	Packet Capture (PCAP) session name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

file-url *ts-url*

Context	**configure mirror mirror-dest** *service-name* **pcap** *string*
Description	location of the file, either local or remote
String Length	1 to 180
Introduced	16.0.R1

remote-source

Context	**configure mirror mirror-dest** *service-name*
Description	Enter the remote-source context
Introduced	16.0.R1

far-end [far-end-addr] *ipv4-address*

Context	**configure mirror mirror-dest** *service-name* **remote-source**
Description	Enter the far-end context
Introduced	16.0.R1

[far-end-addr] *ipv4-address*

Context	**configure mirror mirror-dest** *service-name* **remote-source far-end** *ipv4-address*
Description	Far end IP address
Introduced	16.0.R1
Notes	This element is part of a list key

icb *boolean*

Context	**configure mirror mirror-dest** *service-name* **remote-source far-end** *ipv4-address*
Description	Remote source as an inter-chassis backup
Default	false
Introduced	16.0.R1

ing-vc-label *number*

Context	**configure mirror mirror-dest** *service-name* **remote-source far-end** *ipv4-address*
Description	Ingress virtual circuit label
Range	32 to 18431
Introduced	16.0.R1
Notes	This element is part of a choice

label-signaling *keyword*

Context	**configure mirror mirror-dest** *service-name* **remote-source far-end** *ipv4-address*
Description	Protocol to obtain the ingress labels
Default	tldp
Options	tldp
Introduced	16.0.R1
Notes	This element is part of a choice

vc-id *number*

Context	**configure mirror mirror-dest** *service-name* **remote-source far-end** *ipv4-address*
Description	Virtual circuit identifier associated with the remote source
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure mirror mirror-dest** *service-name* **remote-source**
Description	Enter the spoke-sdp context
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier.
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

control-word *boolean*

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id*

Description Enable the CW bit in label message

Introduced 16.0.R1

egress

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

vc-label *number*

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **egress**

Description Static MPLS VC label that is used to send packets to the far end device through this SDP

Range 16 to 1048575

Introduced 16.0.R1

endpoint

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id*

Description Enter the endpoint context

Introduced 16.0.R1

icb *boolean*

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **endpoint**

Description Bind SDP as type Inter-Chassis Backup (ICB)

Default false

Introduced 16.0.R1

name *string*

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **endpoint**

Description Name of endpoint where this SDP bind is attached

Reference configure **mirror mirror-dest** *service-name* **endpoint** *string*

Introduced 16.0.R1

ingress

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id*

Description Enter the ingress context

Introduced 16.0.R1

l2tpv3

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the l2tpv3 context

Introduced 16.0.R1

cookie

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **ingress l2tpv3**

Description Enter the cookie context

Introduced 16.0.R1

cookie1 *cookie-value*

Context **configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **ingress l2tpv3 cookie**

Description Value of cookie-1 for the tunnel

String Length 18 to 23

Introduced 16.0.R1

cookie2 *cookie-value*

Context	**configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **ingress l2tpv3 cookie**
Description	Value of cookie-1 for the tunnel
String Length	18 to 23
Introduced	16.0.R1

vc-label *number*

Context	**configure mirror mirror-dest** *service-name* **remote-source spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	32 to 18431
Introduced	16.0.R1

sap [sap-id] *sap*

Context	**configure mirror mirror-dest** *service-name*
Description	Enter the sap context
Max. Elements	1
Introduced	16.0.R3

[sap-id] *sap*

Context	**configure mirror mirror-dest** *service-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R2
Notes	This element is part of a list key

egress

Context	**configure mirror mirror-dest** *service-name* **sap** *sap*
Description	Enter the egress context
Introduced	16.0.R1

ip-mirror

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress**

Description Enter the ip-mirror context

Introduced 16.0.R4

mac

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress ip-mirror**

Description Enter the mac context

Introduced 16.0.R4

destination *mac-address*

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress ip-mirror mac**

Description Destination MAC address.

Introduced 16.0.R4

source *mac-unicast-address*

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress ip-mirror mac**

Description Source MAC address.

Introduced 16.0.R4

qos

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

sap-egress

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress qos**

Description Enter the sap-egress context

Introduced 16.0.R1

policy-name *string*

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress qos sap-egress**

Description Policy identifier

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R4

port-redirect-group

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress qos sap-egress**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Port redirect queue-group policy

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R4

instance *number*

Context **configure mirror mirror-dest** *service-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Port queue-group instance

Range 1 to 65535

Introduced 16.0.R4

endpoint *string*

Context **configure mirror mirror-dest** *service-name* **sap** *sap*

Description Configure name of the service endpoint.

Reference configure **mirror mirror-dest** *service-name* **endpoint** *string*

Introduced 16.0.R3

service-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure mirror mirror-dest** *service-name*
Description	Unique service ID; cannot be used by any other service, regardless of service type
Range	1 to 2147483647
Introduced	16.0.R1

slice-size *number*

Context	**configure mirror mirror-dest** *service-name*
Description	Maximum size of a mirrored frame that can be transmitted to the mirror destination
Range	128 to 9216
Introduced	16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure mirror mirror-dest** *service-name*
Description	Enter the spoke-sdp context
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier.
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

control-word *boolean*

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Set the CW bit in the label message
Introduced	16.0.R1

egress

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the egress context
Introduced	16.0.R1

l2tpv3

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **egress**
Description	Enter the l2tpv3 context
Introduced	16.0.R1

cookie *cookie-value*

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **egress l2tpv3**
Description	Cookie parameters
String Length	18 to 23
Introduced	16.0.R1

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **egress**
Description	Static MPLS VC label that is used to send packets to the far end device through this SDP
Range	16 to 1048575
Introduced	16.0.R1

endpoint

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the endpoint context
Introduced	16.0.R1

icb *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Bind SDP as type Inter-Chassis Backup (ICB)
Default	false
Introduced	16.0.R1

name *string*

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Name of endpoint where this SDP bind is attached
Reference	configure **mirror mirror-dest** *service-name* **endpoint** *string*
Introduced	16.0.R1

precedence (*number* | *keyword*)

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Precedence of this SDP bind when there are multiple SDP binds attached to one service endpoint
Default	4
Introduced	16.0.R1

ingress

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the ingress context
Introduced	16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure mirror mirror-dest** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	32 to 18431
Introduced	16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure mirror mirror-dest** *service-name*
Description	Mirror type information
Default	ether
Options	ether, frame-relay, ppp, atm-sdu, satop-e1, satop-t1, cesopsn, cesopsn-cas, ip-only
Introduced	16.0.R1

21 multicast-management Commands

configure
- — **multicast-management**
  - — **bandwidth-policy** *string*
    - — **admin-bw-threshold** *number*
    - — **description** *string*
    - — **falling-percent-reset** *number*
    - — **impm-paths**
      - — **primary-path**
        - — **queue-parameters**
          - — **cbs** *decimal-number*
          - — **drop-tail**
            - — **low**
              - — **percent-reduction-from-mbs** *number*
          - — **mbs** *decimal-number*
      - — **secondary-path**
        - — **number-paths**
          - — **number-of-paths** *number*
          - — **redundant-sfm** *number*
        - — **queue-parameters**
          - — **cbs** *decimal-number*
          - — **drop-tail**
            - — **low**
              - — **percent-reduction-from-mbs** *number*
          - — **mbs** *decimal-number*
    - — **mcast-pool**
      - — **percent-of-total** *number*
      - — **resv-cbs** *number*
      - — **slope-policy** *string*
  - — **chassis-level**
    - — **mmrp-impm-override** *boolean*
    - — **per-mcast-plane-capacity**
      - — **mcast-capacity**
        - — **primary-percentage** *decimal-number*
        - — **secondary-percentage** *decimal-number*
      - — **redundant-mcast-capacity**
        - — **primary-percentage** *decimal-number*
        - — **secondary-percentage** *decimal-number*
      - — **total-capacity** *keyword*
    - — **round-robin-inactive-records** *boolean*
  - — **multicast-info-policy** *string*
    - — **bundle** *string*
      - — **admin-bw** *number*
      - — **bw-activity**
        - — **black-hole-rate** *number*
        - — **bw-activity-type** *keyword*
        - — **falling-delay** *number*
      - — **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - — **admin-bw** *number*
        - — **bw-activity**

- **black-hole-rate** *number*
- **bw-activity-type** *keyword*
- **falling-delay** *number*

- **explicit-sf-path** *keyword*
- **keepalive-override** *number*
- **preference** *number*
- **primary-tunnel-interface**
  - **ldp-p2mp** *number*
  - **rsvp-p2mp** *string*
  - **sender** *ipv4-address*
- **source-override** *ipv4-unicast-address*
  - **admin-bw** *number*
  - **bw-activity**
    - **black-hole-rate** *number*
    - **bw-activity-type** *keyword*
    - **falling-delay** *number*
  - **explicit-sf-path** *keyword*
  - **keepalive-override** *number*
  - **preference** *number*
  - **primary-tunnel-interface**
    - **ldp-p2mp** *number*
    - **rsvp-p2mp** *string*
    - **sender** *ipv4-address*
  - **video**
    - **analyzer**
      - **alarms**
        - **cc-error** *boolean*
        - **non-vid-pid-absent** *number*
        - **pat-repetition**
          - **poa** *number*
          - **qos** *number*
          - **tnc** *number*
        - **pat-syntax** *boolean*
        - **pcr-repetition**
          - **poa** *number*
          - **qos** *number*
          - **tnc** *number*
        - **pid-pmt-unref** *boolean*
        - **pmt-repetition**
          - **poa** *number*
          - **qos** *number*
          - **tnc** *number*
        - **pmt-syntax** *boolean*
        - **report-alarm**
          - **severity** *keyword*
        - **tei-set** *boolean*
        - **ts-sync-loss** *boolean*
        - **vid-pid-absent** *number*
      - **description** *string*
    - **fcc-channel-type** *keyword*
    - **fcc-min-duration** *number*
    - **fcc-server** *keyword*
    - **local-rt-server** *keyword*
    - **reorder-audio** *number*

- **rt-buffer-size** *number*
- **rt-server**
  - **ip-address** *ipv4-unicast-address*
  - **port** *number*
  - **rt-state** *keyword*
- **stream-selection**
  - **intf1** *string*
  - **intf2** *string*
  - **source1** *ipv4-address*
  - **source2** *ipv4-address*
- **video-group** (*number* | *keyword*)

- **video**
  - **analyzer**
    - **alarms**
      - **cc-error** *boolean*
      - **non-vid-pid-absent** *number*
      - **pat-repetition**
        - **poa** *number*
        - **qos** *number*
        - **tnc** *number*
      - **pat-syntax** *boolean*
      - **pcr-repetition**
        - **poa** *number*
        - **qos** *number*
        - **tnc** *number*
      - **pid-pmt-unref** *boolean*
      - **pmt-repetition**
        - **poa** *number*
        - **qos** *number*
        - **tnc** *number*
      - **pmt-syntax** *boolean*
      - **report-alarm**
        - **severity** *keyword*
      - **tei-set** *boolean*
      - **ts-sync-loss** *boolean*
      - **vid-pid-absent** *number*
    - **description** *string*
  - **fcc-channel-type** *keyword*
  - **fcc-min-duration** *number*
  - **fcc-server** *keyword*
  - **local-rt-server** *keyword*
  - **reorder-audio** *number*
  - **rt-buffer-size** *number*
  - **rt-server**
    - **ip-address** *ipv4-unicast-address*
    - **port** *number*
    - **rt-state** *keyword*
  - **stream-selection**
    - **intf1** *string*
    - **intf2** *string*
    - **source1** *ipv4-address*
    - **source2** *ipv4-address*
  - **video-group** (*number* | *keyword*)
- **cong-priority-threshold** *number*

- **description** *string*
- **ecmp-opt-threshold** *number*
- **explicit-sf-path** *keyword*
- **keepalive-override** *number*
- **preference** *number*
- **primary-tunnel-interface**
  - **ldp-p2mp** *number*
  - **rsvp-p2mp** *string*
  - **sender** *ipv4-address*
- **video**
  - **analyzer**
    - **alarms**
      - **cc-error** *boolean*
      - **non-vid-pid-absent** *number*
      - **pat-repetition**
        - **poa** *number*
        - **qos** *number*
        - **tnc** *number*
      - **pat-syntax** *boolean*
      - **pcr-repetition**
        - **poa** *number*
        - **qos** *number*
        - **tnc** *number*
      - **pid-pmt-unref** *boolean*
      - **pmt-repetition**
        - **poa** *number*
        - **qos** *number*
        - **tnc** *number*
      - **pmt-syntax** *boolean*
      - **report-alarm**
        - **severity** *keyword*
      - **tei-set** *boolean*
      - **ts-sync-loss** *boolean*
      - **vid-pid-absent** *number*
    - **description** *string*
  - **fcc-channel-type** *keyword*
  - **fcc-min-duration** *number*
  - **fcc-server** *boolean*
  - **local-fcc-port** *number*
  - **local-rt-port** *number*
  - **local-rt-server** *boolean*
  - **reorder-audio** *number*
  - **rt-buffer-size** *number*
  - **rt-server**
    - **ip-address** *ipv4-unicast-address*
    - **port** *number*
  - **stream-selection**
    - **intf1** *string*
    - **intf2** *string*
    - **source1** *ipv4-address*
    - **source2** *ipv4-address*
  - **video-group** *number*
- **description** *string*
- **video-policy**

```
        — video-interface ipv4-unicast-address
            — fcc-session-timeout number
            — hd
                — dent-threshold number
                — fcc-burst number
                — fcc-server
                    — mode keyword
                — local-rt-server boolean
                — mc-handover number
                — rt-rate number
            — max-igmp-latency number
            — max-sessions number
            — pip
                — dent-threshold number
                — fcc-burst number
                — fcc-server
                    — mode keyword
                — local-rt-server boolean
                — mc-handover number
                — rt-rate number
            — ret-session-timeout number
            — rt-payload-type number
            — rt-rate number
            — sd
                — dent-threshold number
                — fcc-burst number
                — fcc-server
                    — mode keyword
                — local-rt-server boolean
                — mc-handover number
                — rt-rate number
            — subscriber-bw-limit number
    — multicast-reporting-destination string
        — address ipv4-address
        — admin-state keyword
        — description string
        — maximum-transmission-delay number
        — udp-port number
```

21.1 multicast-management Command Descriptions

multicast-management

Context	**configure**
Description	Enter the multicast-management context
Introduced	16.0.R1

bandwidth-policy [policy-name] *string*

Context	**configure multicast-management**
Description	Enter the bandwidth-policy context
Max. Elements	32
Introduced	16.0.R1

[policy-name] *string*

Context	**configure multicast-management bandwidth-policy** *string*
Description	Multicast bandwidth policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-bw-threshold *number*

Context	**configure multicast-management bandwidth-policy** *string*
Description	Administrative bandwidth threshold
Range	1 to 40000000
Default	10
Units	kilobps
Introduced	16.0.R1

description *string*

Context	**configure multicast-management bandwidth-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

falling-percent-reset *number*

Context	**configure multicast-management bandwidth-policy** *string*
Description	Percentage of bandwidth decrease that occurs before resetting
Range	1 to 100
Default	50
Introduced	16.0.R1

impm-paths

Context	**configure multicast-management bandwidth-policy** *string*
Description	Enter the impm-paths context
Introduced	16.0.R1

primary-path

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths**
Description	Enter the primary-path context
Introduced	16.0.R1

queue-parameters

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths primary-path**
Description	Enter the queue-parameters context
Introduced	16.0.R1

cbs *decimal-number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths primary-path queue-parameters**
Description	Committed buffer size (CBS)
Range	0.00 to 100.00
Default	5.00
Units	centipercent
Introduced	16.0.R1

drop-tail

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths primary-path queue-parameters**
Description	Enter the drop-tail context
Introduced	16.0.R1

low

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths primary-path queue-parameters drop-tail**
Description	Enter the low context
Introduced	16.0.R1

percent-reduction-from-mbs *number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths primary-path queue-parameters drop-tail low**
Description	Low drop-tail percent from MBS that is reduced
Range	0 to 100
Default	10
Introduced	16.0.R1

mbs *decimal-number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths primary-path queue-parameters**
Description	Maximum buffer size (MBS)
Range	0.00 to 100.00
Default	7.00
Units	centipercent
Introduced	16.0.R1

secondary-path

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths**
Description	Enter the secondary-path context
Introduced	16.0.R1

number-paths

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path**
Description	Enter the number-paths context
Introduced	16.0.R1

number-of-paths *number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path number-paths**
Description	Number of paths for the secondary path
Range	1 to 15
Default	1
Introduced	16.0.R1

redundant-sfm *number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path number-paths**
Description	Number of paths for the secondary path in dual-sfm mode.
Range	1 to 15
Default	1
Introduced	16.0.R1

queue-parameters

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path**
Description	Enter the queue-parameters context
Introduced	16.0.R1

cbs *decimal-number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path queue-parameters**
Description	Committed buffer size (CBS)
Range	0.00 to 100.00
Default	30.00
Units	centipercent
Introduced	16.0.R1

drop-tail

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path queue-parameters**
Description	Enter the drop-tail context
Introduced	16.0.R1

low

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path queue-parameters drop-tail**
Description	Enter the low context
Introduced	16.0.R1

percent-reduction-from-mbs *number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path queue-parameters drop-tail low**
Description	Low drop-tail percent from MBS that is reduced
Range	0 to 100
Default	10
Introduced	16.0.R1

mbs *decimal-number*

Context	**configure multicast-management bandwidth-policy** *string* **impm-paths secondary-path queue-parameters**
Description	Maximum buffer size (MBS)
Range	0.00 to 100.00
Default	40.00
Units	centipercent
Introduced	16.0.R1

mcast-pool

Context	**configure multicast-management bandwidth-policy** *string*
Description	Enter the mcast-pool context
Introduced	16.0.R1

percent-of-total *number*

Context	**configure multicast-management bandwidth-policy** *string* **mcast-pool**
Description	Percentage of the total ingress buffer pool assigned for the bandwidth policy
Range	1 to 50
Default	10
Units	percent
Introduced	16.0.R1

resv-cbs *number*

Context	**configure multicast-management bandwidth-policy** *string* **mcast-pool**
Description	Percentage of the pool reserved for multicast path queues within their Committed Buffer Size (CBS) threshold.
Range	1 to 100
Default	50
Introduced	16.0.R1

slope-policy *string*

Context	**configure multicast-management bandwidth-policy** *string* **mcast-pool**
Description	Slope policy name
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

chassis-level

Context	**configure multicast-management**
Description	Enter the chassis-level context
Introduced	16.0.R1

mmrp-impm-override *boolean*

Context	**configure multicast-management chassis-level**
Description	Manage MMRP traffic by IMPM
Default	false
Introduced	16.0.R1

per-mcast-plane-capacity

Context	**configure multicast-management chassis-level**
Description	Enter the per-mcast-plane-capacity context
Introduced	16.0.R1

mcast-capacity

Context	**configure multicast-management chassis-level per-mcast-plane-capacity**
Description	Enter the mcast-capacity context
Introduced	16.0.R1

primary-percentage *decimal-number*

Context	**configure multicast-management chassis-level per-mcast-plane-capacity mcast-capacity**
Description	Percentage of the total multicast plane capacity to use for primary multicast planes
Range	0.01 to 100.00
Units	centipercent
Introduced	16.0.R1

secondary-percentage *decimal-number*

Context	**configure multicast-management chassis-level per-mcast-plane-capacity mcast-capacity**
Description	Percentage of the total multicast plane capacity to use for secondary multicast planes
Range	0.01 to 100.00
Units	centipercent
Introduced	16.0.R1

redundant-mcast-capacity

Context	**configure multicast-management chassis-level per-mcast-plane-capacity**
Description	Enter the redundant-mcast-capacity context
Introduced	16.0.R1

primary-percentage *decimal-number*

Context	**configure multicast-management chassis-level per-mcast-plane-capacity redundant-mcast-capacity**
Description	Percentage of the total multicast plane capacity to use for primary multicast planes
Range	0.01 to 100.00
Units	centipercent
Introduced	16.0.R1

secondary-percentage *decimal-number*

Context	**configure multicast-management chassis-level per-mcast-plane-capacity redundant-mcast-capacity**
Description	Percentage of the total multicast plane capacity to use for secondary multicast planes
Range	0.01 to 100.00
Units	centipercent
Introduced	16.0.R1

total-capacity *keyword*

Context	**configure multicast-management chassis-level per-mcast-plane-capacity**
Description	Total multicast plane bandwidth
Units	megabps
Options	dynamic, 2000, 4000, 5250, 8250, 16500, 19000
Introduced	16.0.R1

round-robin-inactive-records *boolean*

Context	**configure multicast-management chassis-level**
Description	Redistribute initially inactive records among all available IOM multicast paths and switch fabric planes
Default	false
Introduced	16.0.R1

multicast-info-policy [policy-name] *string*

Context	**configure multicast-management**
Description	Enter the multicast-info-policy context
Max. Elements	32
Introduced	16.0.R1

[policy-name] *string*

Context	**configure multicast-management multicast-info-policy** *string*
Description	Multicast CAC policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

bundle [bundle-name] *string*

Context	**configure multicast-management multicast-info-policy** *string*
Description	Enter the bundle context
Max. Elements	32
Introduced	16.0.R1

[bundle-name] *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Bundle name for the multicast info policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-bw *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Administrative bandwidth
Range	1 to 40000000
Units	kilobps
Introduced	16.0.R1

bw-activity

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Enter the bw-activity context
Introduced	16.0.R1

black-hole-rate *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **bw-activity**
Description	Rate at which a channel is placed in the black-hole state
Range	1 to 40000000
Units	kilobps
Introduced	16.0.R1

bw-activity-type *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **bw-activity**
Description	Bandwidth required by a multicast channel
Default	dynamic
Options	use-admin-bw, dynamic
Introduced	16.0.R1

falling-delay *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **bw-activity**
Description	Falling delay threshold to hold on to the previous highest bandwidth until the delay time expires
Range	10 to 3600
Default	30
Units	seconds
Introduced	16.0.R1

channel start (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Enter the channel context
Introduced	16.0.R1

start (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Start IP address for a channel
Introduced	16.0.R1
Notes	This element is part of a list key

end (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Ending IP address for a channel
Introduced	16.0.R1
Notes	This element is part of a list key

admin-bw *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Administrative bandwidth
Range	1 to 40000000
Units	kilobps
Introduced	16.0.R1

bw-activity

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the bw-activity context
Introduced	16.0.R1

black-hole-rate *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **bw-activity**
Description	Rate at which a channel is placed in the black-hole state
Range	0 to 40000000
Default	0
Units	kilobps
Introduced	16.0.R1

bw-activity-type *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **bw-activity**
Description	Bandwidth required by a multicast channel
Options	use-admin-bw, dynamic
Introduced	16.0.R1

falling-delay *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **bw-activity**
Description	Falling delay threshold to hold on to the previous highest bandwidth until the delay time expires
Range	10 to 3600
Units	seconds
Introduced	16.0.R1

explicit-sf-path *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Explicit ingress switch fabric multicast path that is assigned to a multicast channel
Options	primary, secondary
Introduced	16.0.R1

keepalive-override *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Keepalive timer override
Range	10 to 300
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Relative preference level for multicast channels
Range	1 to 7
Introduced	16.0.R1

primary-tunnel-interface

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the primary-tunnel-interface context
Introduced	16.0.R1

ldp-p2mp *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **primary-tunnel-interface**
Description	Identifier for signaling mLDP P2MP LSP
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

rsvp-p2mp *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **primary-tunnel-interface**
Description	Name of P2MP for LDP P2MP
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

sender *ipv4-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **primary-tunnel-interface**
Description	Bundle to assign in multicast info policy and channels to receive from primary tunnel interface
Introduced	16.0.R1

source-override [ip-address] *ipv4-unicast-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the source-override context
Introduced	16.0.R1

[ip-address] *ipv4-unicast-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*
Description	IP address for source override
Introduced	16.0.R1
Notes	This element is part of a list key

admin-bw *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*

Description Administrative bandwidth

Range 1 to 40000000

Units kilobps

Introduced 16.0.R1

bw-activity

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*

Description Enter the bw-activity context

Introduced 16.0.R1

black-hole-rate *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **bw-activity**

Description Rate at which a channel is placed in the black-hole state

Range 0 to 40000000

Default 0

Units kilobps

Introduced 16.0.R1

bw-activity-type *keyword*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **bw-activity**

Description Bandwidth required by a multicast channel

Options use-admin-bw, dynamic

Introduced 16.0.R1

falling-delay *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **bw-activity**
Description	Falling delay threshold to hold on to the previous highest bandwidth until the delay time expires
Range	10 to 3600
Units	seconds
Introduced	16.0.R1

explicit-sf-path *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*
Description	Explicit ingress switch fabric multicast path that is assigned to a multicast channel
Options	primary, secondary
Introduced	16.0.R1

keepalive-override *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*
Description	Keepalive timer override
Range	10 to 300
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*
Description	Relative preference level for multicast channels
Range	1 to 7
Introduced	16.0.R1

primary-tunnel-interface

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*
Description	Enter the primary-tunnel-interface context
Introduced	16.0.R1

ldp-p2mp *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **primary-tunnel-interface**
Description	Identifier for signaling mLDP P2MP LSP
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

rsvp-p2mp *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **primary-tunnel-interface**
Description	Name of P2MP for LDP P2MP
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

sender *ipv4-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **primary-tunnel-interface**
Description	Bundle to assign in multicast info policy and channels to receive from primary tunnel interface
Introduced	16.0.R1

video

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address*

Description Enter the video context

Introduced 16.0.R1

analyzer

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**

Description Enter the analyzer context

Introduced 16.0.R1

alarms

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer**

Description Enter the alarms context

Introduced 16.0.R1

cc-error *boolean*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**

Description Check the continuity counter (Cc)

Default false

Introduced 16.0.R1

non-vid-pid-absent *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**

Description PID that is checked within the specified interval

Range 100 to 5000

Units milliseconds

Introduced 16.0.R1

pat-repetition

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**

Description Enter the pat-repetition context

Introduced 16.0.R1

poa *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pat-repetition**

Description Time between two consecutive PATs for which a POA alarm is raised if interval is equaled or exceeded

Range 300 to 1000

Default 500

Units milliseconds

Introduced 16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 900
Default	200
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 800
Default	100
Units	milliseconds
Introduced	16.0.R1

pat-syntax *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Check for PAT syntax errors
Default	false
Introduced	16.0.R1

pcr-repetition

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**

Description Enter the pcr-repetition context

Introduced 16.0.R1

poa *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pcr-repetition**

Description Time between two consecutive PCRs for which a POA alarm is raised if interval is equaled or exceeded

Range 300 to 1000

Default 500

Units milliseconds

Introduced 16.0.R1

qos *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pcr-repetition**

Description Time between two consecutive PCRs for which a QoS alarm is raised if interval is equaled or exceeded

Range 200 to 900

Default 200

Units milliseconds

Introduced 16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 800
Default	100
Units	milliseconds
Introduced	16.0.R1

pid-pmt-unref *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Check for unreferenced PIDs in the PMT
Default	false
Introduced	16.0.R1

pmt-repetition

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Enter the pmt-repetition context
Introduced	16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 5000
Default	2000
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 4900
Default	800
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 4800
Default	400
Units	milliseconds
Introduced	16.0.R1

pmt-syntax *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Check for PMT syntax errors
Default	false
Introduced	16.0.R1

report-alarm

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Enter the report-alarm context
Introduced	16.0.R1

severity *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms report-alarm**
Description	Keyword for the type of alarm
Options	tnc, qos, poa
Introduced	16.0.R1

tei-set *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Check for TEI set errors
Default	false
Introduced	16.0.R1

ts-sync-loss *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	Check for synchronization loss errors
Default	false
Introduced	16.0.R1

vid-pid-absent *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer alarms**
Description	VID PID that is checked within the specified time interval
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

description *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video analyzer**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fcc-channel-type *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**
Description	Channel type for the bundle or channel
Options	hd, sd, pip
Introduced	16.0.R1

fcc-min-duration *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**
Description	Minimum duration of the FCC burst
Range	300 to 8000
Units	milliseconds
Introduced	16.0.R1

fcc-server *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**
Description	Value to override parent value of FCC server
Options	false, true
Introduced	16.0.R1

local-rt-server *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**
Description	Value to override parent value of local RT server
Options	false, true
Introduced	16.0.R1

reorder-audio *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**
Description	Time by which the audio packets are reordered in the ad stream
Range	100 to 1000
Units	milliseconds
Introduced	16.0.R1

rt-buffer-size *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**

Description Buffer size to store channel packets

Range 300 to 8000

Default 300

Units milliseconds

Introduced 16.0.R1

rt-server

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**

Description Enter the rt-server context

Introduced 16.0.R1

ip-address *ipv4-unicast-address*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video rt-server**

Description RT server IP address.

Introduced 16.0.R1

port *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video rt-server**

Description RT server port number.

Range 1024 to 5999 | 6251 to 65535

Introduced 16.0.R1

rt-state *keyword*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video rt-server**

Description Specifies the value which will override parent value of RT server state.

Options false, true

Introduced 16.0.R1

stream-selection

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**

Description Enter the stream-selection context

Introduced 16.0.R1

intf1 *string*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video stream-selection**

Description Primary interface

String Length 1 to 32

Introduced 16.0.R1

intf2 *string*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video stream-selection**

Description Secondary interface

String Length 1 to 32

Introduced 16.0.R1

source1 *ipv4-address*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video stream-selection**

Description Primary source IP address

Introduced 16.0.R1

source2 *ipv4-address*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video stream-selection**

Description Secondary source IP address

Introduced 16.0.R1

video-group (*number* | *keyword*)

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **source-override** *ipv4-unicast-address* **video**

Description Identifier for this video group

Range 1 to 4

Options none

Introduced 16.0.R1

video

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the video context

Introduced 16.0.R1

analyzer

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**

Description Enter the analyzer context

Introduced 16.0.R1

alarms

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer**

Description Enter the alarms context

Introduced 16.0.R1

cc-error *boolean*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**

Description Check the continuity counter (Cc)

Default false

Introduced 16.0.R1

non-vid-pid-absent *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**

Description PID that is checked within the specified interval

Range 100 to 5000

Units milliseconds

Introduced 16.0.R1

pat-repetition

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**

Description Enter the pat-repetition context

Introduced 16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 1000
Default	500
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 900
Default	200
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 800
Default	100
Units	milliseconds
Introduced	16.0.R1

pat-syntax *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Check for PAT syntax errors
Default	false
Introduced	16.0.R1

pcr-repetition

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Enter the pcr-repetition context
Introduced	16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 1000
Default	500
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 900
Default	200
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 800
Default	100
Units	milliseconds
Introduced	16.0.R1

pid-pmt-unref *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Check for unreferenced PIDs in the PMT
Default	false
Introduced	16.0.R1

pmt-repetition

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Enter the pmt-repetition context
Introduced	16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 5000
Default	2000
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 4900
Default	800
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 4800
Default	400
Units	milliseconds
Introduced	16.0.R1

pmt-syntax *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Check for PMT syntax errors
Default	false
Introduced	16.0.R1

report-alarm

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Enter the report-alarm context
Introduced	16.0.R1

severity *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms report-alarm**
Description	Keyword for the type of alarm
Options	tnc, qos, poa
Introduced	16.0.R1

tei-set *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Check for TEI set errors
Default	false
Introduced	16.0.R1

ts-sync-loss *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	Check for synchronization loss errors
Default	false
Introduced	16.0.R1

vid-pid-absent *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer alarms**
Description	VID PID that is checked within the specified time interval
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

description *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video analyzer**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fcc-channel-type *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Channel type for the bundle or channel
Options	hd, sd, pip
Introduced	16.0.R1

fcc-min-duration *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Minimum duration of the FCC burst
Range	300 to 8000
Units	milliseconds
Introduced	16.0.R1

fcc-server *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Value to override parent value of FCC server
Options	false, true
Introduced	16.0.R1

local-rt-server *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Value to override parent value of local RT server
Options	false, true
Introduced	16.0.R1

reorder-audio *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Time by which the audio packets are reordered in the ad stream
Range	100 to 1000
Units	milliseconds
Introduced	16.0.R1

rt-buffer-size *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Buffer size to store channel packets
Range	300 to 8000
Default	300
Units	milliseconds
Introduced	16.0.R1

rt-server

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Enter the rt-server context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video rt-server**

Description RT server IP address.

Introduced 16.0.R1

port *number*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video rt-server**

Description RT server port number.

Range 1024 to 5999 | 6251 to 65535

Introduced 16.0.R1

rt-state *keyword*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video rt-server**

Description Specifies the value which will override parent value of RT server state.

Options false, true

Introduced 16.0.R1

stream-selection

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**

Description Enter the stream-selection context

Introduced 16.0.R1

intf1 *string*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video stream-selection**

Description Primary interface

String Length 1 to 32

Introduced 16.0.R1

intf2 *string*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video stream-selection**

Description Secondary interface

String Length 1 to 32

Introduced 16.0.R1

source1 *ipv4-address*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video stream-selection**

Description Primary source IP address

Introduced 16.0.R1

source2 *ipv4-address*

Context **configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video stream-selection**

Description Secondary source IP address

Introduced 16.0.R1

video-group (*number* | *keyword*)

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **channel start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **video**
Description	Identifier for this video group
Range	1 to 4
Options	none
Introduced	16.0.R1

cong-priority-threshold *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Preference level threshold where records change from low to high congestion priority
Range	0 to 7
Default	4
Introduced	16.0.R1

description *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ecmp-opt-threshold *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	ECMP threshold
Range	0 to 7
Default	7
Introduced	16.0.R1

explicit-sf-path *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Explicit ingress switch fabric multicast path that is assigned to a multicast channel
Options	primary, secondary
Introduced	16.0.R1

keepalive-override *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Keepalive timer override
Range	10 to 300
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Relative preference level for multicast channels
Range	1 to 7
Introduced	16.0.R1

primary-tunnel-interface

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Enter the primary-tunnel-interface context
Introduced	16.0.R1

ldp-p2mp *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **primary-tunnel-interface**
Description	Identifier for signaling mLDP P2MP LSP
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

rsvp-p2mp *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **primary-tunnel-interface**
Description	Name of P2MP for LDP P2MP
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

sender *ipv4-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **primary-tunnel-interface**
Description	Bundle to assign in multicast info policy and channels to receive from primary tunnel interface
Introduced	16.0.R1

video

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string*
Description	Enter the video context
Introduced	16.0.R1

analyzer

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Enter the analyzer context
Introduced	16.0.R1

alarms

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer**
Description	Enter the alarms context
Introduced	16.0.R1

cc-error *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Check the continuity counter (Cc)
Default	false
Introduced	16.0.R1

non-vid-pid-absent *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	PID that is checked within the specified interval
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

pat-repetition

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Enter the pat-repetition context
Introduced	16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 1000
Default	500
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 900
Default	200
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pat-repetition**
Description	Time between two consecutive PATs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 800
Default	100
Units	milliseconds
Introduced	16.0.R1

pat-syntax *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Check for PAT syntax errors
Default	false
Introduced	16.0.R1

pcr-repetition

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Enter the pcr-repetition context
Introduced	16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 1000
Default	500
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 900
Default	200
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pcr-repetition**
Description	Time between two consecutive PCRs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 800
Default	100
Units	milliseconds
Introduced	16.0.R1

pid-pmt-unref *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Check for unreferenced PIDs in the PMT
Default	false
Introduced	16.0.R1

pmt-repetition

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Enter the pmt-repetition context
Introduced	16.0.R1

poa *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a POA alarm is raised if interval is equaled or exceeded
Range	300 to 5000
Default	2000
Units	milliseconds
Introduced	16.0.R1

qos *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a QoS alarm is raised if interval is equaled or exceeded
Range	200 to 4900
Default	800
Units	milliseconds
Introduced	16.0.R1

tnc *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms pmt-repetition**
Description	Time between two consecutive PMTs for which a TNC alarm is raised if interval is equaled or exceeded
Range	100 to 4800
Default	400
Units	milliseconds
Introduced	16.0.R1

pmt-syntax *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Check for PMT syntax errors
Default	false
Introduced	16.0.R1

report-alarm

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Enter the report-alarm context
Introduced	16.0.R1

severity *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms report-alarm**
Description	Keyword for the type of alarm
Options	tnc, qos, poa
Introduced	16.0.R1

tei-set *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Check for TEI set errors
Default	false
Introduced	16.0.R1

ts-sync-loss *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	Check for synchronization loss errors
Default	false
Introduced	16.0.R1

vid-pid-absent *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer alarms**
Description	VID PID that is checked within the specified time interval
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

description *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video analyzer**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fcc-channel-type *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Channel type for the bundle or channel
Options	hd, sd, pip
Introduced	16.0.R1

fcc-min-duration *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Minimum duration of the FCC burst
Range	300 to 8000
Default	300
Units	milliseconds
Introduced	16.0.R1

fcc-server *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Enable FCC server for a multicast bundle
Default	false
Introduced	16.0.R1

local-fcc-port *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Local port for FCC requests
Range	1024 to 5999 | 6251 to 65535
Default	4098
Introduced	16.0.R1

local-rt-port *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Local port for RT requests
Range	1024 to 5999 | 6251 to 65535
Default	4096
Introduced	16.0.R1

local-rt-server *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Enable local retransmission server capability
Default	false
Introduced	16.0.R1

reorder-audio *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Time by which the audio packets are reordered in the ad stream
Range	100 to 1000
Units	milliseconds
Introduced	16.0.R1

rt-buffer-size *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Buffer size to store channel packets
Range	300 to 8000
Default	300
Units	milliseconds
Introduced	16.0.R1

rt-server

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Enter the rt-server context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video rt-server**
Description	RT server IP address
Introduced	16.0.R1
Notes	This element is mandatory

port *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video rt-server**
Description	RT server port number
Range	1024 to 5999 | 6251 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

stream-selection

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Enter the stream-selection context
Introduced	16.0.R1

intf1 *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video stream-selection**
Description	Primary interface
String Length	1 to 32
Introduced	16.0.R1

intf2 *string*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video stream-selection**
Description	Secondary interface
String Length	1 to 32
Introduced	16.0.R1

source1 *ipv4-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video stream-selection**
Description	Primary source IP address
Introduced	16.0.R1

source2 *ipv4-address*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video stream-selection**
Description	Secondary source IP address
Introduced	16.0.R1

video-group *number*

Context	**configure multicast-management multicast-info-policy** *string* **bundle** *string* **video**
Description	Video group for this bundle
Range	1 to 4
Introduced	16.0.R1

description *string*

Context	**configure multicast-management multicast-info-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

video-policy

Context	**configure multicast-management multicast-info-policy** *string*
Description	Enter the video-policy context
Introduced	16.0.R1

video-interface [ip-address] *ipv4-unicast-address*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy**
Description	Enter the video-interface context
Introduced	16.0.R1

[ip-address] *ipv4-unicast-address*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	IP address of the video interface
Introduced	16.0.R1
Notes	This element is part of a list key

fcc-session-timeout *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	FCC session timeout
Range	5 to 300
Default	300
Units	seconds
Introduced	16.0.R1

hd

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Enter the hd context
Introduced	16.0.R1

dent-threshold *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd**
Description	Threshold below which the FCC server dents unicast data sent to FCC client
Range	1 to 31
Default	16
Introduced	16.0.R1

fcc-burst *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd**
Description	Burst rate at which the Fast Channel Change (FCC) server sends unicast data to FCC client
Range	0 to 600
Default	25
Units	percent
Introduced	16.0.R1

fcc-server

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd**
Description	Enter the fcc-server context
Introduced	16.0.R1

mode *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd fcc-server**
Description	Mode by which FCC server sends information to the client
Options	burst, dent, hybrid
Introduced	16.0.R1

local-rt-server *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd**
Description	Enable local retransmission server capability
Default	false
Introduced	16.0.R1

mc-handover *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd**
Description	FCC server rate during handover.
Range	0 to 100
Default	25
Introduced	16.0.R1

rt-rate *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **hd**
Description	Rate at which RT packets are sent to client
Range	1 to 100
Default	5
Introduced	16.0.R1

max-igmp-latency *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Maximum IGMP latency per client
Range	10 to 1000
Default	100
Units	milliseconds
Introduced	16.0.R1

max-sessions *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Maximum number of sessions per client
Range	1 to 65536
Default	256
Introduced	16.0.R1

pip

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Enter the pip context
Introduced	16.0.R1

dent-threshold *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip**
Description	Threshold below which the FCC server dents unicast data sent to FCC client
Range	1 to 31
Default	16
Introduced	16.0.R1

fcc-burst *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip**
Description	Burst rate at which the Fast Channel Change (FCC) server sends unicast data to FCC client
Range	0 to 600
Default	25
Units	percent
Introduced	16.0.R1

fcc-server

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip**
Description	Enter the fcc-server context
Introduced	16.0.R1

mode *keyword*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip fcc-server**
Description	Mode by which FCC server sends information to the client
Options	burst, dent, hybrid
Introduced	16.0.R1

local-rt-server *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip**
Description	Enable local retransmission server capability
Default	false
Introduced	16.0.R1

mc-handover *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip**
Description	Rate at which FCC server sends unicast data to FCC client during handover to multicast stream
Range	0 to 600
Default	25
Units	percent
Introduced	16.0.R1

rt-rate *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **pip**
Description	Rate at which RT packets are sent to client
Range	1 to 100
Default	5
Introduced	16.0.R1

ret-session-timeout *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	RET session timeout
Range	5 to 300
Default	300
Units	seconds
Introduced	16.0.R1

rt-payload-type *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Format expected for received retransmission packets
Range	33 | 96 to 127
Default	99
Introduced	16.0.R1

rt-rate *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Rate at which RT packets are sent to client
Range	1 to 100
Default	5
Introduced	16.0.R1

sd

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Enter the sd context
Introduced	16.0.R1

dent-threshold *number*

Context **configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd**

Description Threshold below which the FCC server dents unicast data sent to FCC client

Range 1 to 31

Default 16

Introduced 16.0.R1

fcc-burst *number*

Context **configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd**

Description Burst rate at which the Fast Channel Change (FCC) server sends unicast data to FCC client

Range 0 to 600

Default 25

Units percent

Introduced 16.0.R1

fcc-server

Context **configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd**

Description Enter the fcc-server context

Introduced 16.0.R1

mode *keyword*

Context **configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd fcc-server**

Description Mode by which FCC server sends information to the client

Options burst, dent, hybrid

Introduced 16.0.R1

local-rt-server *boolean*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd**
Description	Enable local retransmission server capability
Default	false
Introduced	16.0.R1

mc-handover *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd**
Description	Rate at which FCC server sends unicast data to FCC client during handover to multicast stream
Range	0 to 600
Default	25
Units	percent
Introduced	16.0.R1

rt-rate *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address* **sd**
Description	Rate at which RT packets are sent to client
Range	1 to 100
Default	5
Introduced	16.0.R1

subscriber-bw-limit *number*

Context	**configure multicast-management multicast-info-policy** *string* **video-policy video-interface** *ipv4-unicast-address*
Description	Egress bandwidth limit per subscriber for retransmission
Range	1 to 4294967295
Default	4294967295
Units	kilobps
Introduced	16.0.R1

multicast-reporting-destination [name] *string*

Context	**configure multicast-management**
Description	Enter the multicast-reporting-destination context
Introduced	16.0.R1

[name] *string*

Context	**configure multicast-management multicast-reporting-destination** *string*
Description	Destination name for multicast reporting
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv4-address*

Context	**configure multicast-management multicast-reporting-destination** *string*
Description	IP address of the multicast reporting destination
Default	0.0.0.0
Introduced	16.0.R1

admin-state *keyword*

Context	**configure multicast-management multicast-reporting-destination** *string*
Description	Administrative state of the multicast reporting destination
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure multicast-management multicast-reporting-destination** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

maximum-transmission-delay *number*

Context	**configure multicast-management multicast-reporting-destination** *string*
Description	Maximum delay after which any cached reports are flushed to the reporting destination
Range	0 to 100
Default	1
Units	deciseconds
Introduced	16.0.R1

udp-port *number*

Context	**configure multicast-management multicast-reporting-destination** *string*
Description	UDP port to which multicast reports are sent
Range	1 to 65535
Default	1037
Introduced	16.0.R1

22 oam-pm Commands

configure
- — **oam-pm**
  - — **bin-group** *number*
    - — **admin-state** *keyword*
    - — **bin-type** *keyword*
      - — **bin** *number*
        - — **lower-bound** *number*
      - — **delay-event** *keyword*
        - — **clear-threshold** *number*
        - — **exclude-lowest-bin** *number*
        - — **lowest-bin** *number*
        - — **raise-threshold** *number*
      - — **exclude-from-avg** *keyword*
        - — **bins** *string*
    - — **description** *string*
  - — **session** *string*
    - — **bin-group** *string*
    - — **description** *string*
    - — **ethernet**
      - — **dest-mac** *mac-unicast-address*
      - — **dmm**
        - — **admin-state** *keyword*
        - — **data-tlv-size** *number*
        - — **interval** *number*
        - — **test-duration** *number*
        - — **test-id** *number*
      - — **lmm**
        - — **admin-state** *keyword*
        - — **availability**
          - — **admin-state** *keyword*
          - — **flr-threshold** *number*
          - — **hli-force-count** *boolean*
          - — **timing**
            - — **chli-threshold** *number*
            - — **consec-delta-t** *number*
            - — **frames-per-delta-t** *number*
        - — **fc-collection** *boolean*
        - — **interval** *number*
        - — **loss-events**
          - — **avg-flr-event** *keyword*
            - — **clear-threshold** *decimal-number*
            - — **raise-threshold** *decimal-number*
          - — **chli-event** *keyword*
            - — **clear-threshold** *number*
            - — **raise-threshold** *number*
          - — **hli-event** *keyword*
            - — **clear-threshold** *number*
            - — **raise-threshold** *number*
          - — **unavailability-event** *keyword*
            - — **clear-threshold** *number*

```
            — raise-threshold number
         — undet-availability-event keyword
            — clear-threshold number
            — raise-threshold number
         — undet-unavailability-event keyword
            — clear-threshold number
            — raise-threshold number
      — test-duration number
      — test-id number
   — priority number
   — remote-mep number
   — slm
      — admin-state keyword
      — data-tlv-size number
      — flr-threshold number
      — hli-force-count boolean
      — interval number
      — loss-events
         — avg-flr-event keyword
            — clear-threshold decimal-number
            — raise-threshold decimal-number
         — chli-event keyword
            — clear-threshold number
            — raise-threshold number
         — hli-event keyword
            — clear-threshold number
            — raise-threshold number
         — unavailability-event keyword
            — clear-threshold number
            — raise-threshold number
         — undet-availability-event keyword
            — clear-threshold number
            — raise-threshold number
         — undet-unavailability-event keyword
            — clear-threshold number
            — raise-threshold number
      — test-duration number
      — test-id number
      — timing
         — chli-threshold number
         — consec-delta-t number
         — frames-per-delta-t number
   — source
      — ma-admin-name admin-name
      — md-admin-name admin-name
      — mep number
— ip
   — allow-egress-remark-dscp boolean
   — destination (ipv4-address-no-zone | ipv6-address-no-zone)
   — destination-udp-port number
   — do-not-fragment boolean
   — dscp (keyword | keyword)
   — fc keyword
   — forwarding
```

- **bypass-routing**
- **interface** *interface-name*
- **next-hop** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

pattern (*keyword* | *number*)
profile *keyword*
router-instance *string*
source (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
source-udp-port *number*
ttl *number*
twamp-light

- **admin-state** *keyword*
- **interval** *number*
- **loss**
  - **flr-threshold** *number*
  - **hli-force-count** *boolean*
  - **timing**
    - **chli-threshold** *number*
    - **consec-delta-t** *number*
    - **frames-per-delta-t** *number*
- **loss-events**
  - **avg-flr-event** *keyword*
    - **clear-threshold** *decimal-number*
    - **raise-threshold** *decimal-number*
  - **chli-event** *keyword*
    - **clear-threshold** *number*
    - **raise-threshold** *number*
  - **hli-event** *keyword*
    - **clear-threshold** *number*
    - **raise-threshold** *number*
  - **unavailability-event** *keyword*
    - **clear-threshold** *number*
    - **raise-threshold** *number*
  - **undet-availability-event** *keyword*
    - **clear-threshold** *number*
    - **raise-threshold** *number*
  - **undet-unavailability-event** *keyword*
    - **clear-threshold** *number*
    - **raise-threshold** *number*
- **pad-size** *number*
- **record-stats** *keyword*
- **test-duration** *number*
- **test-id** *number*

measurement-interval *keyword*

- **accounting-policy** *string*
- **boundary-type** *keyword*
- **clock-offset** *number*
- **intervals-stored** *number*
- **threshold-cross-alerts**
  - **admin-state** *keyword*
  - **delay-events** *boolean*
  - **loss-events** *boolean*

session-type *keyword*

22.1 oam-pm Command Descriptions

oam-pm

Context	**configure**
Description	Enter the oam-pm context
Introduced	16.0.R1

bin-group [bin-group-id] *number*

Context	**configure oam-pm**
Description	Enter the bin-group context
Introduced	16.0.R4

[bin-group-id] *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number*
Description	Bin group identifier
Range	1 to 255
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number*
Description	Administratively enable or disable the bin group
Options	enable, disable
Introduced	16.0.R4

bin-type [bin-metric] *keyword*

Context	**configure oam-pm bin-group** *number*
Description	Enter the bin-type context
Introduced	16.0.R4

[bin-metric] *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword*
Description	Frame Delay, Frame Delay Range, Inter-Frame Delay Variation
Options	fd, fdr, ifdv
Introduced	16.0.R4
Notes	This element is part of a list key

bin [bin-number] *number*

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword*
Description	Enter the bin context
Introduced	16.0.R4

[bin-number] *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **bin** *number*
Description	The number of the bin
Range	0 to 9
Introduced	16.0.R4
Notes	This element is part of a list key

lower-bound *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **bin** *number*
Description	The lower bound for the bin
Range	0 | 1 to 4294967295
Units	microseconds
Introduced	16.0.R4

delay-event [direction] *keyword*

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword*
Description	Enter the delay-event context
Introduced	16.0.R4

[direction] *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **delay-event** *keyword*
Description	The MEF-35 traffic flow direction of an OAM-PM delay test
Options	forward, backward, round-trip
Introduced	16.0.R4
Notes	This element is part of a list key

clear-threshold *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **delay-event** *keyword*
Description	The OAM-PM clear threshold for excessive delay
Range	0 to 863999
Introduced	16.0.R4

exclude-lowest-bin *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **delay-event** *keyword*
Description	The lowest bin number of the set of bins to be excluded from Threshold Crossing Alert (TCA) calculations
Range	1 to 9
Introduced	16.0.R4

lowest-bin *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **delay-event** *keyword*
Description	The lowest OAM-PM delay bin to be used when applying a configured Raise or Clear delay threshold
Range	0 to 9
Introduced	16.0.R4
Notes	This element is mandatory

raise-threshold *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **delay-event** *keyword*
Description	The OAM-PM raise threshold for excessive delay
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory

exclude-from-avg [direction] *keyword*

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword*
Description	Enter the exclude-from-avg context
Introduced	16.0.R4

[direction] *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **exclude-from-avg** *keyword*
Description	The MEF-35 traffic flow direction of an OAM-PM delay test
Options	forward, backward, round-trip
Introduced	16.0.R4
Notes	This element is part of a list key

bins *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure oam-pm bin-group** *number* **bin-type** *keyword* **exclude-from-avg** *keyword*
Description	A set of bin numbers, each in the range 0..9 Three example values: 0 0,8,9 0,7-9
String Length	1 to 39
Introduced	16.0.R4
Notes	This element is mandatory

description *string*

Context	**configure oam-pm bin-group** *number*
Description	A text description of the bin group
String Length	1 to 80
Introduced	16.0.R4

session [session-name] *string*

Context	**configure oam-pm**
Description	Enter the session context
Max. Elements	10000
Introduced	16.0.R4

[session-name] *string*

Context	**configure oam-pm session** *string*
Description	OAM-PM session name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

bin-group *string*

Context	**configure oam-pm session** *string*
Description	The bin group for the session
Reference	configure **oam-pm bin-group** *number*
Introduced	16.0.R4

description *string*

Context	**configure oam-pm session** *string*
Description	A text description of the session
String Length	1 to 80
Introduced	16.0.R4

ethernet

Context	**configure oam-pm session** *string*
Description	Enter the **ethernet** context
Introduced	16.0.R4

dest-mac *mac-unicast-address*

Context	**configure oam-pm session** *string* **ethernet**
Description	The destination MAC address for the session
Introduced	16.0.R4
Notes	This element is part of a choice

dmm

Context	**configure oam-pm session** *string* **ethernet**
Description	Enter the **dmm** context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure oam-pm session** *string* **ethernet dmm**
Description	Administratively enable or disable the test
Default	disable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

data-tlv-size *number*

Context	**configure oam-pm session** *string* **ethernet dmm**
Description	The size of the pad TLV in the frames sent for the test
Range	0 | 3 to 2000
Default	0
Units	octets
Introduced	16.0.R4
Notes	This element is part of a choice

interval *number*

Context	**configure oam-pm session** *string* **ethernet dmm**
Description	The elapsed time between transmission PDUs for the specified session's test
Range	100 | 1000 | 10000
Default	1000
Units	milliseconds
Introduced	16.0.R4
Notes	This element is part of a choice

test-duration *number*

Context	**configure oam-pm session** *string* **ethernet dmm**
Description	The duration of an on-demand test
Range	1 to 86400
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

test-id *number*

Context	**configure oam-pm session** *string* **ethernet dmm**
Description	The test identifier
Range	0 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

lmm

Context	**configure oam-pm session** *string* **ethernet**
Description	Enter the **lmm** context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	Administratively enable or disable the test
Default	disable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

availability

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	Enter the **availability** context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm availability**
Description	Administratively enable or disable availability calculations for the LMM test
Default	disable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

flr-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm availability**
Description	The Frame Loss Ratio threshold for the test
Range	0 to 100
Default	50
Introduced	16.0.R4
Notes	This element is part of a choice

hli-force-count *boolean*

Context	**configure oam-pm session** *string* **ethernet lmm availability**
Description	Force High Loss Intervals (HLIs) and Consecutive High Loss Intervals (CHLIs) to be counted, regardless of the Availability state
Default	false
Introduced	16.0.R4
Notes	This element is part of a choice

timing

Context	**configure oam-pm session** *string* **ethernet lmm availability**
Description	Enter the **timing** context
Introduced	16.0.R4

chli-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm availability timing**
Description	The MEF-35 Consecutive High Loss Interval (CHLI) threshold
Range	1 to 9
Default	5
Introduced	16.0.R4
Notes	This element is part of a choice

consec-delta-t *number*

Context	**configure oam-pm session** *string* **ethernet lmm availability timing**
Description	The number of consecutive MEF-35 'delta_t's which constitute a MEF-35 'Availability Window'
Range	2 to 10
Default	10
Introduced	16.0.R4
Notes	This element is part of a choice

frames-per-delta-t *number*

Context	**configure oam-pm session** *string* **ethernet lmm availability timing**
Description	The number of frames to send in one MEF-35 'delta_t' also known as 'Small Time Interval'
Range	1 to 50
Default	10
Introduced	16.0.R4
Notes	This element is part of a choice

fc-collection *boolean*

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	Enable or disable the collection of per forwarding class statistics for the LMM test
Default	false
Introduced	16.0.R4
Notes	This element is part of a choice

interval *number*

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	The elapsed time between transmission PDUs for the specified session's test
Range	100 | 1000 | 10000
Default	1000
Units	milliseconds
Introduced	16.0.R4
Notes	This element is part of a choice

loss-events

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	Enter the **loss-events** context
Introduced	16.0.R4

avg-flr-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events**
Description	Enter the **avg-flr-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events avg-flr-event** *keyword*
Description	Traffic flow direction
Options	forward, backward
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *decimal-number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events avg-flr-event** *keyword*
Description	The clear threshold for the average Frame Loss Ratio (FLR)
Range	0.000 to 99.999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *decimal-number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events avg-flr-event** *keyword*
Description	The raise threshold for the average Frame Loss Ratio (FLR)
Range	0.000 to 100.000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

chli-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events**
Description	Enter the **chli-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events chli-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events chli-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events chli-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

hli-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events**
Description	Enter the **hli-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events hli-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events hli-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events hli-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

unavailability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events**
Description	Enter the **unavailability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events unavailability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events unavailability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events unavailability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

undet-availability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events**
Description	Enter the **undet-availability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events undet-availability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events undet-availability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events undet-availability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

undet-unavailability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events**
Description	Enter the **undet-unavailability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events undet-unavailability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events undet-unavailability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet lmm loss-events undet-unavailability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

test-duration *number*

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	The duration of an on-demand test
Range	1 to 86400
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

test-id *number*

Context	**configure oam-pm session** *string* **ethernet lmm**
Description	The test identifier
Range	0 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

priority *number*

Context	**configure oam-pm session** *string* **ethernet**
Description	The priority and forwarding class for the session
Range	0 to 7
Default	0
Introduced	16.0.R4
Notes	This element is part of a choice

remote-mep *number*

Context	**configure oam-pm session** *string* **ethernet**
Description	The remote Maintenance association End Point (MEP) for the session
Range	1 to 8191
Introduced	16.0.R4
Notes	This element is part of a choice

slm

Context	**configure oam-pm session** *string* **ethernet**
Description	Enter the **slm** context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	Administratively enable or disable the test
Default	disable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

data-tlv-size *number*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	The size of the pad TLV in the frames sent for the test
Range	0 | 3 to 2000
Default	0
Units	octets
Introduced	16.0.R4
Notes	This element is part of a choice

flr-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	The Frame Loss Ratio threshold for the test
Range	0 to 100
Default	50
Introduced	16.0.R4
Notes	This element is part of a choice

hli-force-count *boolean*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	Force High Loss Intervals (HLIs) and Consecutive High Loss Intervals (CHLIs) to be counted, regardless of the Availability state
Default	false
Introduced	16.0.R4
Notes	This element is part of a choice

interval *number*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	The elapsed time between transmission PDUs for the specified session's test
Range	100 | 1000
Default	100
Units	milliseconds
Introduced	16.0.R4
Notes	This element is part of a choice

loss-events

Context	**configure oam-pm session** *string* **ethernet slm**
Description	Enter the **loss-events** context
Introduced	16.0.R4

avg-flr-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events**
Description	Enter the **avg-flr-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events avg-flr-event** *keyword*
Description	Traffic flow direction
Options	forward, backward
Introduced	16.0.R4
Notes	This element is part of a choice This element is part of a list key

clear-threshold *decimal-number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events avg-flr-event** *keyword*
Description	The clear threshold for the average Frame Loss Ratio (FLR)
Range	0.000 to 99.999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *decimal-number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events avg-flr-event** *keyword*
Description	The raise threshold for the average Frame Loss Ratio (FLR)
Range	0.000 to 100.000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

chli-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events**
Description	Enter the **chli-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events chli-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events chli-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events chli-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

hli-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events**
Description	Enter the **hli-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events hli-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events hli-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events hli-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

unavailability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events**
Description	Enter the **unavailability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events unavailability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events unavailability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events unavailability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

undet-availability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events**
Description	Enter the **undet-availability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events undet-availability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events undet-availability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events undet-availability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

undet-unavailability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events**
Description	Enter the **undet-unavailability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ethernet slm loss-events undet-unavailability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events undet-unavailability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm loss-events undet-unavailability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

test-duration *number*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	The duration of an on-demand test
Range	1 to 86400
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

test-id *number*

Context	**configure oam-pm session** *string* **ethernet slm**
Description	The test identifier
Range	0 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

timing

Context	**configure oam-pm session** *string* **ethernet slm**
Description	Enter the **timing** context
Introduced	16.0.R4

chli-threshold *number*

Context	**configure oam-pm session** *string* **ethernet slm timing**
Description	The MEF-35 Consecutive High Loss Interval (CHLI) threshold
Range	1 to 9
Default	5
Introduced	16.0.R4
Notes	This element is part of a choice

consec-delta-t *number*

Context	**configure oam-pm session** *string* **ethernet slm timing**
Description	The number of consecutive MEF-35 'delta_t's which constitute a MEF-35 'Availability Window'
Range	2 to 10
Default	10
Introduced	16.0.R4
Notes	This element is part of a choice

frames-per-delta-t *number*

Context	**configure oam-pm session** *string* **ethernet slm timing**
Description	The number of frames to send in one MEF-35 'delta_t' also known as 'Small Time Interval'
Range	1 to 50
Default	10
Introduced	16.0.R4
Notes	This element is part of a choice

source

Context	**configure oam-pm session** *string* **ethernet**
Description	Enter the **source** context
Introduced	16.0.R4

ma-admin-name *admin-name*

Context	**configure oam-pm session** *string* **ethernet source**
Description	The source Ethernet Maintenance Association (MA) name
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

md-admin-name *admin-name*

Context	**configure oam-pm session** *string* **ethernet source**
Description	The source Ethernet Maintenance Domain (MD) name
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

mep *number*

Context	**configure oam-pm session** *string* **ethernet source**
Description	The source Ethernet Maintenance association End Point (MEP) identifier
Range	1 to 8191
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

ip

Context	**configure oam-pm session** *string*
Description	Enter the **ip** context
Introduced	16.0.R4

allow-egress-remark-dscp *boolean*

Context	**configure oam-pm session** *string* **ip**
Description	Whether or not to allow the session's configured DSCP value to be overwritten by the applicable egress Quality of Service (QoS) policy
Default	false
Introduced	16.0.R4
Notes	This element is part of a choice

destination (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure oam-pm session** *string* **ip**
Description	The destination IP address for the session
Introduced	16.0.R4
Notes	This element is part of a choice

destination-udp-port *number*

Context	**configure oam-pm session** *string* **ip**
Description	The destination UDP port for the session
Range	1 to 65535
Introduced	16.0.R4
Notes	This element is part of a choice

do-not-fragment *boolean*

Context	**configure oam-pm session** *string* **ip**
Description	The IPv4 packet header Don't Fragment (DF) field for the session
Default	false
Introduced	16.0.R4
Notes	This element is part of a choice

dscp (*keyword* | *keyword*)

Context	**configure oam-pm session** *string* **ip**
Description	The Differentiated Services Code Point (DSCP) for the session. resolve = use the fc and profile configuration values to derive the DSCP
Default	resolve
Introduced	16.0.R4
Notes	This element is part of a choice

fc *keyword*

Context	**configure oam-pm session** *string* **ip**
Description	The forwarding class for the session
Default	be
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R4
Notes	This element is part of a choice

forwarding

Context	**configure oam-pm session** *string* **ip**
Description	Enter the **forwarding** context
Introduced	16.0.R4

bypass-routing

Context	**configure oam-pm session** *string* **ip forwarding**
Description	Bypass the routing table when sending test packets
Introduced	16.0.R4
Notes	This element is part of a choice

interface *interface-name*

Context	**configure oam-pm session** *string* **ip forwarding**
Description	The name of the interface to be used
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

next-hop (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure oam-pm session** *string* **ip forwarding**
Description	IP-address for forwarding
Introduced	16.0.R4
Notes	This element is part of a choice

pattern (*keyword* | *number*)

Context	**configure oam-pm session** *string* **ip**
Description	The pattern used to fill the packet padding field for the session
Default	0
Introduced	16.0.R4
Notes	This element is part of a choice

profile *keyword*

Context	**configure oam-pm session** *string* **ip**
Description	The profile for the session
Default	out
Options	in, out
Introduced	16.0.R4
Notes	This element is part of a choice

router-instance *string*

Context	**configure oam-pm session** *string* **ip**
Description	The router for the session
Default	Base
Introduced	16.0.R4
Notes	This element is part of a choice

source (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure oam-pm session** *string* **ip**
Description	The source IP address for the session
Introduced	16.0.R4
Notes	This element is part of a choice

source-udp-port *number*

Context	**configure oam-pm session** *string* **ip**
Description	The source UDP port for the session
Range	64374 to 64383
Introduced	16.0.R4
Notes	This element is part of a choice

ttl *number*

Context	**configure oam-pm session** *string* **ip**
Description	The Time-To-Live value for the session
Range	1 to 255
Default	255
Introduced	16.0.R4
Notes	This element is part of a choice

twamp-light

Context	**configure oam-pm session** *string* **ip**
Description	Enter the **twamp-light** context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	Administratively enable or disable the test
Default	disable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

interval *number*

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	The elapsed time between transmission PDUs for the specified session's test
Range	100 | 1000 | 10000
Default	1000
Units	milliseconds
Introduced	16.0.R4
Notes	This element is part of a choice

loss

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	Enter the **loss** context
Introduced	16.0.R4

flr-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss**
Description	The Frame Loss Ratio threshold for the test
Range	0 to 100
Default	50
Introduced	16.0.R4
Notes	This element is part of a choice

hli-force-count *boolean*

Context	**configure oam-pm session** *string* **ip twamp-light loss**
Description	Force High Loss Intervals (HLIs) and Consecutive High Loss Intervals (CHLIs) to be counted, regardless of the Availability state
Default	false
Introduced	16.0.R4
Notes	This element is part of a choice

timing

Context	**configure oam-pm session** *string* **ip twamp-light loss**
Description	Enter the **timing** context
Introduced	16.0.R4

chli-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss timing**
Description	The MEF-35 Consecutive High Loss Interval (CHLI) threshold
Range	1 to 9
Default	5
Introduced	16.0.R4
Notes	This element is part of a choice

consec-delta-t *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss timing**
Description	The number of consecutive MEF-35 'delta_t's which constitute a MEF-35 'Availability Window'
Range	2 to 10
Default	10
Introduced	16.0.R4
Notes	This element is part of a choice

frames-per-delta-t *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss timing**
Description	The number of frames to send in one MEF-35 'delta_t' also known as 'Small Time Interval'
Range	1 to 50
Default	1
Introduced	16.0.R4
Notes	This element is part of a choice

loss-events

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	Enter the **loss-events** context
Introduced	16.0.R4

avg-flr-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events**
Description	Enter the **avg-flr-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events avg-flr-event** *keyword*
Description	Traffic flow direction
Options	forward, backward
Introduced	16.0.R4
Notes	This element is part of a choice This element is part of a list key

clear-threshold *decimal-number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events avg-flr-event** *keyword*
Description	The clear threshold for the average Frame Loss Ratio (FLR)
Range	0.000 to 99.999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *decimal-number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events avg-flr-event** *keyword*
Description	The raise threshold for the average Frame Loss Ratio (FLR)
Range	0.000 to 100.000
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

chli-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events**
Description	Enter the **chli-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events chli-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events chli-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events chli-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

hli-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events**
Description	Enter the **hli-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events hli-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events hli-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events hli-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

unavailability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events**
Description	Enter the **unavailability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events unavailability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events unavailability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events unavailability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

undet-availability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events**
Description	Enter the **undet-availability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events undet-availability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events undet-availability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events undet-availability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

undet-unavailability-event [direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events**
Description	Enter the **undet-unavailability-event** context
Introduced	16.0.R4

[direction] *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events undet-unavailability-event** *keyword*
Description	Traffic flow direction
Options	forward, backward, aggregate
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

clear-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events undet-unavailability-event** *keyword*
Description	Clear threshold
Range	0 to 863999
Introduced	16.0.R4
Notes	This element is part of a choice

raise-threshold *number*

Context	**configure oam-pm session** *string* **ip twamp-light loss-events undet-unavailability-event** *keyword*
Description	Raise threshold
Range	1 to 864000
Introduced	16.0.R4
Notes	This element is mandatory
	This element is part of a choice

pad-size *number*

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	The amount of padding in each packet sent for the TWAMP-Light test
Range	0 to 2000
Default	0
Units	octets
Introduced	16.0.R4
Notes	This element is part of a choice

record-stats *keyword*

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	The type of statistics recorded for the TWAMP-Light test
Default	delay
Options	delay, loss, delay-and-loss
Introduced	16.0.R4
Notes	This element is part of a choice

test-duration *number*

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	The duration of an on-demand test
Range	1 to 86400
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

test-id *number*

Context	**configure oam-pm session** *string* **ip twamp-light**
Description	The test identifier
Range	0 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

measurement-interval [duration] *keyword*

Context	**configure oam-pm session** *string*
Description	Enter the measurement-interval context
Introduced	16.0.R4

[duration] *keyword*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword*
Description	The duration of the measurement interval
Options	15-mins, 1-hour, 1-day, 5-mins
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword*
Description	The accounting policy for the measurement interval
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R4

boundary-type *keyword*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword*
Description	The start condition for the measurement interval (start when the test starts, or wall clock aligned)
Default	clock-aligned
Options	clock-aligned, test-relative
Introduced	16.0.R4

clock-offset *number*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword*
Description	The offset for a clock-aligned measurement interval (must be less than the selected duration)
Range	0 to 86399
Default	0
Units	seconds
Introduced	16.0.R4

intervals-stored *number*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword*
Description	The maximum number of intervals stored for the measurement interval
Range	1 to 96
Introduced	16.0.R4

threshold-cross-alerts

Context	**configure oam-pm session** *string* **measurement-interval** *keyword*
Description	Enter the threshold-cross-alerts context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword* **threshold-cross-alerts**
Description	Administratively enable or disable TCAs for the measurement interval
Default	disable
Options	enable, disable
Introduced	16.0.R4

delay-events *boolean*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword* **threshold-cross-alerts**
Description	Enable or disable delay TCAs for the measurement interval
Default	false
Introduced	16.0.R4

loss-events *boolean*

Context	**configure oam-pm session** *string* **measurement-interval** *keyword* **threshold-cross-alerts**
Description	Enable or disable loss TCAs for the measurement interval
Default	false
Introduced	16.0.R4

session-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure oam-pm session** *string*
Description	The type of the specified session
Default	proactive
Options	proactive, on-demand
Introduced	16.0.R4

23 openflow Commands

configure
- — **openflow**
  - — **of-controller** *number*
    - — **address** *ipv4-address*
    - — **admin-state** *keyword*
    - — **description** *string*
    - — **echo-interval** *number*
    - — **echo-multiple** *number*
    - — **role** *keyword*
    - — **tls-server-profile** *string*
    - — **version** *keyword*
  - — **of-switch** *string*
    - — **admin-state** *keyword*
    - — **aux-channel** *boolean*
    - — **controller** *ipv4-address* **port** *number*
      - — **ofc-loopback** *ipv4-address*
      - — **service-name** *service-name*
      - — **tls-client-profile** *string*
    - — **description** *very-long-description*
    - — **echo-interval** *number*
    - — **echo-multiple** *number*
    - — **flowtable** *number*
      - — **max-size** *number*
      - — **mismatch-action** *keyword*
      - — **switch-defined-cookie** *boolean*
    - — **logical-port-status** *keyword*

23.1 openflow Command Descriptions

openflow

Context	**configure**
Description	Enter the openflow context
Introduced	16.0.R1

of-controller [controller-id] *number*

Context	**configure openflow**
Description	Enter the of-controller context
Max. Elements	1
Introduced	16.0.R1

[controller-id] *number*

Context	**configure openflow of-controller** *number*
Description	OpenFlow controller id. Currently is supported only value of 1.
Default	1
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv4-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure openflow of-controller** *number*
Description	Local IPv4 address for OpenFlow controller to be used for packets on both main and aux channels. By default, this is the management IP address of the system. It may also correspond to the system IP address or another loopback address configured on the system. The OpenFlow controller must be shutdown to change its address.
Introduced	16.0.R1

admin-state *keyword*

Context	**configure openflow of-controller** *number*
Description	Administrative state of an OpenFlow controller instance.
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure openflow of-controller** *number*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R1

echo-interval *number*

Context	**configure openflow of-controller** *number*
Description	Time interval between two consecutive OpenFlow echo request transmissions for a given OpenFlow session.
Range	10 to 3600
Default	10
Units	seconds
Introduced	16.0.R1

echo-multiple *number*

Context	**configure openflow of-controller** *number*
Description	Multiplier for OpenFlow control channel echo packets. The OpenFlow control channel is considered operationally down if no reply is heard from the switch after the specified multiplier.
Range	3 to 100
Default	3
Introduced	16.0.R1

role *keyword*

Context	**configure openflow of-controller** *number*
Description	The role that the controller will request to OpenFlow switches when multiple controllers are connected to a switch.
Default	equal
Options	equal
Introduced	16.0.R1

tls-server-profile *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure openflow of-controller** *number*
Description	Specifies the profile name used by the controller.
Reference	configure **system security tls server-tls-profile** *string*
Introduced	16.0.R1

version *keyword*

Context	**configure openflow of-controller** *number*
Description	OpenFlow version negotiated between an OpenFlow controller and the switch.
Default	version-1-3-1
Options	version-1-3-1
Introduced	16.0.R1

of-switch [name] *string*

Context	**configure openflow**
Description	Enter the of-switch context
Max. Elements	8
Introduced	16.0.R1

[name] *string*

Context	**configure openflow of-switch** *string*
Description	The name of this OpenFlow switch.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure openflow of-switch** *string*
Description	Administrative state of an OpenFlow switch instance.
Default	disable
Options	enable, disable
Introduced	16.0.R1

aux-channel *boolean*

Context	**configure openflow of-switch** *string*
Description	The operational status of the auxiliary channel established between an OpenFlow controller and switch.
Default	false
Introduced	16.0.R1

controller [address] *ipv4-address* **port** *number*

Context	**configure openflow of-switch** *string*
Description	Enter the controller context
Max. Elements	2
Introduced	16.0.R1

[address] *ipv4-address*

Context	**configure openflow of-switch** *string* **controller** *ipv4-address* **port** *number*
Description	Local IPv4 address for OpenFlow controller to be used for packets on both main and aux channels. By default, this is the management IP address of the system. It may also correspond to the system IP address or another loopback address configured on the system. The OpenFlow controller must be shutdown to change its address.
Introduced	16.0.R1
Notes	This element is part of a list key

port *number*

Context	**configure openflow of-switch** *string* **controller** *ipv4-address* **port** *number*
Description	Controller port.
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

ofc-loopback *ipv4-address*

Context	**configure openflow of-switch** *string* **controller** *ipv4-address* **port** *number*
Description	The controller loop back IPv4 address.
Default	0.0.0.0
Introduced	16.0.R1

service-name *service-name*

Context	**configure openflow of-switch** *string* **controller** *ipv4-address* **port** *number*
Description	The unique value which identifies the Service identifier.
String Length	1 to 64
Introduced	16.0.R1

tls-client-profile *string*

Context	**configure openflow of-switch** *string* **controller** *ipv4-address* **port** *number*
Description	Specifies the profile name used by the controller.
Reference	configure **system security tls client-tls-profile** *string*
Introduced	16.0.R1

description *very-long-description*

Context	**configure openflow of-switch** *string*
Description	Text description.
String Length	1 to 255
Introduced	16.0.R1

echo-interval *number*

Context	**configure openflow of-switch** *string*
Description	Time interval between two consecutive OpenFlow echo request transmissions for a given OpenFlow session.
Range	1 to 3600
Default	10
Units	seconds
Introduced	16.0.R1

echo-multiple *number*

Context	**configure openflow of-switch** *string*
Description	Multiplier for OpenFlow control channel echo packets. The OpenFlow control channel is considered operationally down if no reply is heard from the switch after the specified multiplier.
Range	3 to 100
Default	3
Introduced	16.0.R1

flowtable [table-id] *number*

Context	**configure openflow of-switch** *string*
Description	Enter the flowtable context
Max. Elements	1
Introduced	16.0.R1

[table-id] *number*

Context	**configure openflow of-switch** *string* **flowtable** *number*
Description	OpenFlow table ID.
Introduced	16.0.R1
Notes	This element is part of a list key

max-size *number*

Context	**configure openflow of-switch** *string* **flowtable** *number*
Description	Maximum number of entries that the flowtable can have. The maximum size cannot be changed if any entries are present in the flowtable.
Range	1 to 524288
Default	1000
Introduced	16.0.R1

mismatch-action *keyword*

Context	**configure openflow of-switch** *string* **flowtable** *number*
Description	Action to be performed when no match is found in the flowtable. When the value is set to 'drop', packets are dropped if no match is found in flowtable. When the value is set to 'fall-through, evaluating is continued based on filter policy.
Default	fall-through
Options	drop, fall-through, packet-in
Introduced	16.0.R1

switch-defined-cookie *boolean*

Context	**configure openflow of-switch** *string* **flowtable** *number*
Description	Specifies whether to enable switch-defined cookie encoding or use standard cookie encoding for this flowtable. When the value is set to 'disabled', OpenFlow controller uses standard cookie encoding. When the value is set to 'enabled', OpenFlow controller encodes cookie with special information detailed below: 64 60 59 32 31 0 +-------------+------------------------+----------------------+ | cookie-type | switch-defined-cookie | standard-flow-cookie | +-------------+------------------------+----------------------+ Cookie Name Cookie Type Cookie Value Cookie Usage (Bits 63..60) (Bits 59..32) ---------- ------------- ------------ ------------ ------------------------ grt 0 0 0 0 0 use this cookie value to program flowtable rules to

	be used in GRT instance system 1 0 0 0 0 use this cookie value to program flowtable rules to be used in system filters service 1 1 0 0 service-id for use this cookie value to 'vpls' or program flowtable rules 'vprn' to be used in 'vpls' or services 'vprn' service-types All other values for the cookie are reserved.
Default	false
Introduced	16.0.R1

logical-port-status *keyword*

Context	**configure openflow of-switch** *string*
Description	Type of reporting for logical OpenFlow ports (interfaces with OpenFlow enabled) to the controller. Setting the 'rsvp-te' reports status/statistics for all RSVP-TE LSPs present in the system that are used as output port in flowtable to redirect all RSVP LSPs. Setting the 'mpls-tp' reports status/statistics for all MPLS-TP LSPs present in the system that are used as output port in flowtable to redirect MPLS-TP LSPs. Setting the 'sr-te' reports status/statistics for all SR-TE LSPs present in the system that are used as output port in flowtable to redirect SR-TE LSPs. By default, nothing is set.
Options	rsvp-te, mpls-tp, sr-te
Max. Elements	3
Introduced	16.0.R1

24 policy-options Commands

configure
- — **policy-options**
  - — **as-path** *string*
    - — **expression** *policy-as-path-regexp*
  - — **as-path-group** *string*
    - — **entry** *number*
      - — **expression** *policy-as-path-regexp*
  - — **community** *policy-community-name*
    - — **expression**
      - — **exact** *boolean*
      - — **expr** *expression-community*
    - — **member** *member-community*
  - — **damping** *string*
    - — **half-life** *number*
    - — **max-suppress** *number*
    - — **reuse** *number*
    - — **suppress** *number*
  - — **global-variables**
    - — **name** *policy-var-name*
      - — **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
      - — **number** *number*
      - — **value** *string*
  - — **policy-statement** *string*
    - — **default-action**
      - — **action-type** *keyword*
      - — **add-paths-send-limit** *number*
      - — **admin-tag-policy** *string*
      - — **advertise-label** *keyword*
      - — **aigp-metric**
        - — **add** (*number* | *string*)
        - — **set** (*keyword* | *number* | *string*)
      - — **as-path**
        - — **add** *string*
        - — **replace** *string*
      - — **as-path-prepend**
        - — **as-path** (*number* | *string* | *keyword*)
        - — **repeat** (*number* | *string*)
      - — **bgp-leak** *boolean*
      - — **community**
        - — **add** *string*
        - — **remove** *string*
        - — **replace** *string*
      - — **create-udp-tunnel** *boolean*
      - — **damping** *string*
      - — **dest-class** *number*
      - — **install-backup-path** *boolean*
      - — **local-preference** (*number* | *string*)
      - — **metric**
        - — **add** (*number* | *string*)
        - — **set** (*keyword* | *number* | *string*)

- **subtract** (*number* | *string*)
- **multicast-redirection**
- **fwd-service** *string*
- **ip-int-name** *interface-name*
- **next-hop** (*keyword* | *union* | *string*)
- **origin** (*keyword* | *string*)
- **origin-validation-state** (*keyword* | *string*)
- **preference** (*number* | *string*)
- **resolve-static** *boolean*
- **source-class** *number*
- **sticky-ecmp** *boolean*
- **tag** (*number* | *string*)
- **type** (*number* | *string*)
- **description** *string*
- **entry** *number*
- **action**
- **action-type** *keyword*
- **add-paths-send-limit** *number*
- **admin-tag-policy** *string*
- **advertise-label** *keyword*
- **aigp-metric**
- **add** (*number* | *string*)
- **set** (*keyword* | *number* | *string*)
- **as-path**
- **add** *string*
- **replace** *string*
- **as-path-prepend**
- **as-path** (*number* | *string* | *keyword*)
- **repeat** (*number* | *string*)
- **bgp-leak** *boolean*
- **community**
- **add** *string*
- **remove** *string*
- **replace** *string*
- **create-udp-tunnel** *boolean*
- **damping** *string*
- **dest-class** *number*
- **forwarding-class**
- **fc** *keyword*
- **priority** *keyword*
- **install-backup-path** *boolean*
- **local-preference** (*number* | *string*)
- **metric**
- **add** (*number* | *string*)
- **set** (*keyword* | *number* | *string*)
- **subtract** (*number* | *string*)
- **multicast-redirection**
- **fwd-service** *string*
- **ip-int-name** *interface-name*
- **next-hop** (*keyword* | *union* | *string*)
- **origin** (*keyword* | *string*)
- **origin-validation-state** (*keyword* | *string*)
- **preference** (*number* | *string*)
- **resolve-static** *boolean*

- — **source-class** *number*
- — **sticky-ecmp** *boolean*
- — **tag** (*number* | *string*)
- — **type** (*number* | *string*)
- — **conditional-expression**
  - — **route-exists** *string*
- — **description** *string*
- — **from**
  - — **area** *ipv4-address*
  - — **as-path**
    - — **group** *string*
    - — **length**
      - — **qualifier** *keyword*
      - — **unique** *boolean*
      - — **value** (*number* | *string*)
    - — **name** *string*
  - — **cluster-id**
    - — **ip-address** *ipv4-prefix-with-host-bits*
    - — **none-cluster-list** *boolean*
  - — **community**
    - — **count**
      - — **qualifier** *keyword*
      - — **type** *keyword*
      - — **value** (*number* | *string*)
    - — **expression** *string*
    - — **name** *string*
  - — **evpn-type** *keyword*
  - — **external** *boolean*
  - — **family** *keyword*
  - — **flowspec**
    - — **dest** *string*
    - — **source** *string*
  - — **group-address** *string*
  - — **host-ip** *string*
  - — **interface** *string*
  - — **level** *number*
  - — **local-preference**
    - — **qualifier** *keyword*
    - — **value** (*number* | *string*)
  - — **metric**
    - — **qualifier** *keyword*
    - — **value** (*number* | *string*)
  - — **mvpn-type** *keyword*
  - — **neighbor**
    - — **ip-address** (*union* | *union*)
    - — **prefix-list** *string*
  - — **next-hop**
    - — **ip-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - — **prefix-list** *string*
  - — **origin** *keyword*
  - — **origin-validation-state** *keyword*
  - — **ospf-type** *number*
  - — **path-type** *keyword*
  - — **policy** *string*

```
            — policy-variables
                — name policy-var-name
                    — address (ipv4-address-no-zone | ipv6-address-no-zone)
                    — number number
                    — value string
            — prefix-list string
            — protocol
                — instance (keyword | number)
                — name keyword
            — source-address
                — ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                — prefix-list string
            — state keyword
            — tag (number | keyword)
        — to
            — level number
            — neighbor
                — ip-address (union | union)
                — prefix-list string
            — prefix-list string
            — protocol
                — instance (keyword | number)
                — name keyword
— prefix-list string
    — prefix (ipv4-prefix | ipv6-prefix) type keyword
        — end-length number
        — start-length number
        — through-length number
```

24.1 policy-options Command Descriptions

policy-options

Context	**configure**
Description	Enter the policy-options context
Introduced	16.0.R1

as-path [name] *string*

Context	**configure policy-options**
Description	Enter the as-path context
Introduced	16.0.R1

[name] *string*

Context	**configure policy-options as-path** *string*
Description	AS Path name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

expression *policy-as-path-regexp*

Context	**configure policy-options as-path** *string*
Description	Regular expression string
String Length	1 to 255
Introduced	16.0.R1

as-path-group [name] *string*

Context	**configure policy-options**
Description	Enter the as-path-group context
Introduced	16.0.R1

[name] *string*

Context	**configure policy-options as-path-group** *string*
Description	AS Path Group name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

entry [entry] *number*

Context	**configure policy-options as-path-group** *string*
Description	Enter the entry context
Introduced	16.0.R1

[entry] *number*

Context	**configure policy-options as-path-group** *string* **entry** *number*
Description	ID to uniquely identify this AS Path entry
Range	1 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

expression *policy-as-path-regexp*

Context	**configure policy-options as-path-group** *string* **entry** *number*
Description	Regular expression string
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

community [name] *policy-community-name*

Context	**configure policy-options**
Description	Enter the community context
Introduced	16.0.R1

[name] *policy-community-name*

Context	**configure policy-options community** *policy-community-name*
Description	Name of a community
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

expression

Context	**configure policy-options community** *policy-community-name*
Description	Enter the expression context
Introduced	16.0.R1

exact *boolean*

Context	**configure policy-options community** *policy-community-name* **expression**
Description	Exact match for the expression
Default	false
Introduced	16.0.R1

expr *expression-community*

Context	**configure policy-options community** *policy-community-name* **expression**
Description	Community expression value
String Length	1 to 900
Introduced	16.0.R1
Notes	This element is mandatory

member [member] *member-community*

Context	**configure policy-options community** *policy-community-name*
Description	Enter the member context
Introduced	16.0.R1

[member] *member-community*

Context	**configure policy-options community** *policy-community-name* **member** *member-community*
Description	Community member value
String Length	1 to 72
Introduced	16.0.R1
Notes	This element is part of a list key

damping [name] *string*

Context	**configure policy-options**
Description	Enter the damping context
Introduced	16.0.R1

[name] *string*

Context	**configure policy-options damping** *string*
Description	Damping profile name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

half-life *number*

Context	**configure policy-options damping** *string*
Description	Time after which the accumulated figure-of-merit value is reduced by half if the route remains stable
Range	1 to 45
Units	minutes
Introduced	16.0.R1

max-suppress *number*

Context	**configure policy-options damping** *string*
Description	Maximum time for a route to remain suppressed
Range	1 to 720
Units	minutes
Introduced	16.0.R1

reuse *number*

Context	**configure policy-options damping** *string*
Description	Value below which a suppressed route can be used again
Range	1 to 20000
Introduced	16.0.R1

suppress *number*

Context	**configure policy-options damping** *string*
Description	Value above which a route is suppressed for use or inclusion in route advertisements
Range	1 to 20000
Introduced	16.0.R1

global-variables

Context	**configure policy-options**
Description	Enter the global-variables context
Introduced	16.0.R1

name [variable-name] *policy-var-name*

Context	**configure policy-options global-variables**
Description	Enter the name context
Max. Elements	1000
Introduced	16.0.R1

[variable-name] *policy-var-name*

Context	**configure policy-options global-variables name** *policy-var-name*
Description	Map a variable name starting and ending with an @ sign to a value, a number, or an address
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure policy-options global-variables name** *policy-var-name*
Description	Variable name that is resolved to IP address
Introduced	16.0.R1
Notes	This element is part of a choice

number *number*

Context	**configure policy-options global-variables name** *policy-var-name*
Description	Variable name that is resolved to assigned value
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

value *string*

Context	**configure policy-options global-variables name** *policy-var-name*
Description	Variable name that is resolved to assigned value
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

policy-statement [name] *string*

Context	**configure policy-options**
Description	Enter the policy-statement context
Max. Elements	65535
Introduced	16.0.R1

[name] *string*

Context	**configure policy-options policy-statement** *string*
Description	Name of a policy statement
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

default-action

Context	**configure policy-options policy-statement** *string*
Description	Enter the default-action context
Introduced	16.0.R1

action-type *keyword*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Type of action for routes
Options	accept, reject, next-entry, next-policy
Introduced	16.0.R1
Notes	This element is mandatory

add-paths-send-limit *number*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	BGP ADD-PATHS send limit that is applied for routes
Range	1 to 16
Introduced	16.0.R1

admin-tag-policy *string*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Administrative tag policy name
String Length	1 to 64
Introduced	16.0.R1

advertise-label *keyword*

Context **configure policy-options policy-statement** *string* **default-action**

Description Label allocation for matched BGP routes

Options per-prefix, pop

Introduced 16.0.R1

aigp-metric

Context **configure policy-options policy-statement** *string* **default-action**

Description Enter the aigp-metric context

Introduced 16.0.R1

add (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action aigp-metric**

Description AIGP metric to add

Introduced 16.0.R1

Notes This element is part of a choice

set (*keyword* | *number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action aigp-metric**

Description AIGP metric

Introduced 16.0.R1

Notes This element is part of a choice

as-path

Context **configure policy-options policy-statement** *string* **default-action**

Description Enter the as-path context

Introduced 16.0.R1

add *string*

Context **configure policy-options policy-statement** *string* **default-action as-path**

Description AS path to add

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

replace *string*

Context **configure policy-options policy-statement** *string* **default-action as-path**

Description AS path to replace

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

as-path-prepend

Context **configure policy-options policy-statement** *string* **default-action**

Description Enter the as-path-prepend context

Introduced 16.0.R1

as-path (*number* | *string* | *keyword*)

Context **configure policy-options policy-statement** *string* **default-action as-path-prepend**

Description AS number to prepend to AS path attribute

Introduced 16.0.R1

repeat (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action as-path-prepend**

Description Number of times to prepend the specified AS number

Default 1

Introduced 16.0.R1

bgp-leak *boolean*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Allow leaking for BGP routes
Default	false
Introduced	16.0.R1

community

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Enter the community context
Introduced	16.0.R1

add *string*

Context	**configure policy-options policy-statement** *string* **default-action community**
Description	List of community names to add
String Length	1 to 64
Max. Elements	28
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is ordered by user

remove *string*

Context	**configure policy-options policy-statement** *string* **default-action community**
Description	List of community names to remove
String Length	1 to 64
Max. Elements	28
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is ordered by user

replace *string*

Context	**configure policy-options policy-statement** *string* **default-action community**
Description	List of community names to replace
String Length	1 to 64
Max. Elements	28
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is ordered by user

create-udp-tunnel *boolean*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Create an MPLS-over-UDP tunnel upon receiving BGP routes that match the import policy
Default	false
Introduced	16.0.R1

damping *string*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Damping profile for routes
String Length	1 to 32
Introduced	16.0.R1

dest-class *number*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Default destination class for this policy statement
Range	1 to 255
Introduced	16.0.R1

install-backup-path *boolean*

Context	**configure policy-options policy-statement** *string* **default-action**
Description	Install a pre-programmed backup path for the prefix to provide BGP fast reroute protection
Default	false
Introduced	16.0.R1

local-preference (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**

Description BGP local preference for routes that do not match any entry

Introduced 16.0.R1

metric

Context **configure policy-options policy-statement** *string* **default-action**

Description Enter the metric context

Introduced 16.0.R1

add (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action metric**

Description Metric to add

Introduced 16.0.R1

Notes This element is part of a choice

set (*keyword* | *number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action metric**

Description Metric to assign

Introduced 16.0.R1

Notes This element is part of a choice

subtract (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action metric**

Description Metric to subtract

Introduced 16.0.R1

Notes This element is part of a choice

multicast-redirection

Context **configure policy-options policy-statement** *string* **default-action**

Description Enter the multicast-redirection context

Introduced 16.0.R1

fwd-service *string*

Context **configure policy-options policy-statement** *string* **default-action multicast-redirection**
Description Service ID for multicast redirection
Default Base
Introduced 16.0.R1

ip-int-name *interface-name*

Context **configure policy-options policy-statement** *string* **default-action multicast-redirection**
Description Interface index to redirect IGMP multicast traffic
String Length 1 to 32
Introduced 16.0.R1

next-hop (*keyword* | *union* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**
Description Next hop IP address applied to routes
String Length 1 to 32
Options self
Introduced 16.0.R1

origin (*keyword* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**
Description BGP origin for routes that are exported into BGP
String Length 1 to 32
Options igp, egp, incomplete
Introduced 16.0.R1

origin-validation-state (*keyword* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**
Description Origin validation state for routes
String Length 1 to 32
Options valid, not-found, invalid
Introduced 16.0.R1

preference (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**
Description Route preference applied to routes
String Length 1 to 32
Range 1 to 255
Introduced 16.0.R1

resolve-static *boolean*

Context **configure policy-options policy-statement** *string* **default-action**
Description Use resolved next hop of static route for BGP next hop
Default false
Introduced 16.0.R1

source-class *number*

Context **configure policy-options policy-statement** *string* **default-action**
Description Default source class for this policy statement
Range 1 to 255
Introduced 16.0.R1

sticky-ecmp *boolean*

Context **configure policy-options policy-statement** *string* **default-action**
Description Sticky ECMP flag for BGP ECMP routes
Default false
Introduced 16.0.R1

tag (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**
Description OSPF RIP or ISIS tag applied to routes
String Length 1 to 32
Range 1 to 4294967295
Introduced 16.0.R1

type (*number* | *string*)

Context **configure policy-options policy-statement** *string* **default-action**
Description OSPF type metric applied to routes
String Length 1 to 32
Range 1 to 2
Introduced 16.0.R1

description *string*

Context **configure policy-options policy-statement** *string*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

entry [entry-id] *number*

Context **configure policy-options policy-statement** *string*
Description Enter the entry context
Introduced 16.0.R1

[entry-id] *number*

Context **configure policy-options policy-statement** *string* **entry** *number*
Description Entry ID of a route policy entry
Range 1 to 4294967295
Introduced 16.0.R1
Notes This element is part of a list key

action

Context **configure policy-options policy-statement** *string* **entry** *number*
Description Enter the action context
Introduced 16.0.R1

action-type *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Type of action for routes
Options	accept, reject, next-entry, next-policy
Introduced	16.0.R1
Notes	This element is mandatory

add-paths-send-limit *number*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	BGP ADD-PATHS send limit that is applied for routes
Range	1 to 16
Introduced	16.0.R1

admin-tag-policy *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Administrative tag policy name
String Length	1 to 64
Introduced	16.0.R1

advertise-label *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Label allocation for matched BGP routes
Options	per-prefix, pop
Introduced	16.0.R1

aigp-metric

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Enter the aigp-metric context
Introduced	16.0.R1

add (*number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action aigp-metric**

Description AIGP metric to add

Introduced 16.0.R1

Notes This element is part of a choice

set (*keyword* | *number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action aigp-metric**

Description AIGP metric

Introduced 16.0.R1

Notes This element is part of a choice

as-path

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Enter the as-path context

Introduced 16.0.R1

add *string*

Context **configure policy-options policy-statement** *string* **entry** *number* **action as-path**

Description AS path to add

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

replace *string*

Context **configure policy-options policy-statement** *string* **entry** *number* **action as-path**

Description AS path to replace

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

as-path-prepend

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Enter the as-path-prepend context

Introduced 16.0.R1

as-path (*number* | *string* | *keyword*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action as-path-prepend**

Description AS number to prepend to AS path attribute

Introduced 16.0.R1

repeat (*number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action as-path-prepend**

Description Number of times to prepend the specified AS number

Default 1

Introduced 16.0.R1

bgp-leak *boolean*

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Allow leaking for BGP routes

Default false

Introduced 16.0.R1

community

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Enter the community context

Introduced 16.0.R1

add *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action community**
Description	List of community names to add
String Length	1 to 64
Max. Elements	28
Introduced	16.0.R1
Notes	This element is part of a choice This element is ordered by user

remove *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action community**
Description	List of community names to remove
String Length	1 to 64
Max. Elements	28
Introduced	16.0.R1
Notes	This element is part of a choice This element is ordered by user

replace *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action community**
Description	List of community names to replace
String Length	1 to 64
Max. Elements	28
Introduced	16.0.R1
Notes	This element is part of a choice This element is ordered by user

create-udp-tunnel *boolean*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Create an MPLS-over-UDP tunnel upon receiving BGP routes that match the import policy
Default	false
Introduced	16.0.R1

damping *string*

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Damping profile for routes

String Length 1 to 32

Introduced 16.0.R1

dest-class *number*

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Default destination class for this policy statement

Range 1 to 255

Introduced 16.0.R1

forwarding-class

Context **configure policy-options policy-statement** *string* **entry** *number* **action**

Description Enter the forwarding-class context

Introduced 16.0.R1

fc *keyword*

Context **configure policy-options policy-statement** *string* **entry** *number* **action forwarding-class**

Description Forwarding class associated with the route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure policy-options policy-statement** *string* **entry** *number* **action forwarding-class**

Description Route priority

Options low, high

Introduced 16.0.R1

install-backup-path *boolean*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Install a pre-programmed backup path for the prefix to provide BGP fast reroute protection
Default	false
Introduced	16.0.R1

local-preference (*number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	BGP local preference for routes that do not match any entry
Introduced	16.0.R1

metric

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Enter the metric context
Introduced	16.0.R1

add (*number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action metric**
Description	Metric to add
Introduced	16.0.R1
Notes	This element is part of a choice

set (*keyword* | *number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action metric**
Description	Metric to assign
Introduced	16.0.R1
Notes	This element is part of a choice

subtract (*number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action metric**
Description	Metric to subtract
Introduced	16.0.R1
Notes	This element is part of a choice

multicast-redirection

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Enter the multicast-redirection context
Introduced	16.0.R1

fwd-service *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action multicast-redirection**
Description	Service ID for multicast redirection
Default	Base
Introduced	16.0.R1

ip-int-name *interface-name*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action multicast-redirection**
Description	Interface index to redirect IGMP multicast traffic
String Length	1 to 32
Introduced	16.0.R1

next-hop (*keyword* | *union* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Next hop IP address applied to routes
String Length	1 to 32
Options	self
Introduced	16.0.R1

origin (*keyword* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action**
Description BGP origin for routes that are exported into BGP
String Length 1 to 32
Options igp, egp, incomplete
Introduced 16.0.R1

origin-validation-state (*keyword* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action**
Description Origin validation state for routes
String Length 1 to 32
Options valid, not-found, invalid
Introduced 16.0.R1

preference (*number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **action**
Description Route preference applied to routes
String Length 1 to 32
Range 1 to 255
Introduced 16.0.R1

resolve-static *boolean*

Context **configure policy-options policy-statement** *string* **entry** *number* **action**
Description Use resolved next hop of static route for BGP next hop
Default false
Introduced 16.0.R1

source-class *number*

Context **configure policy-options policy-statement** *string* **entry** *number* **action**
Description Default source class for this policy statement
Range 1 to 255
Introduced 16.0.R1

sticky-ecmp *boolean*

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	Sticky ECMP flag for BGP ECMP routes
Default	false
Introduced	16.0.R1

tag (*number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	OSPF RIP or ISIS tag applied to routes
String Length	1 to 32
Range	1 to 4294967295
Introduced	16.0.R1

type (*number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **action**
Description	OSPF type metric applied to routes
String Length	1 to 32
Range	1 to 2
Introduced	16.0.R1

conditional-expression

Context	**configure policy-options policy-statement** *string* **entry** *number*
Description	Enter the conditional-expression context
Introduced	16.0.R1

route-exists *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **conditional-expression**
Description	Conditional expression to test route existence
String Length	1 to 255
Introduced	16.0.R1

description *string*

Context **configure policy-options policy-statement** *string* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

from

Context **configure policy-options policy-statement** *string* **entry** *number*

Description Enter the from context

Introduced 16.0.R1

area *ipv4-address*

Context **configure policy-options policy-statement** *string* **entry** *number* **from**

Description OSPF area as match criterion

Introduced 16.0.R1

as-path

Context **configure policy-options policy-statement** *string* **entry** *number* **from**

Description Enter the as-path context

Introduced 16.0.R1

group *string*

Context **configure policy-options policy-statement** *string* **entry** *number* **from as-path**

Description AS Path Group as match criterion

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

length

Context **configure policy-options policy-statement** *string* **entry** *number* **from as-path**

Description Enter the length context

Introduced 16.0.R1

qualifier *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from as-path length**
Description	Higher or lower values to be accepted as match criteria
Default	equal
Options	equal, or-higher, or-lower
Introduced	16.0.R1

unique *boolean*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from as-path length**
Description	Only unique AS numbers to be assigned as criteria to match
Default	false
Introduced	16.0.R1

value (*number* | *string*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from as-path length**
Description	AS numbers in the AS Path that are matched on the BGP route
Introduced	16.0.R1

name *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from as-path**
Description	AS Path regular expression statement as match criterion
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

cluster-id

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the cluster-id context
Introduced	16.0.R1

ip-address *ipv4-prefix-with-host-bits*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from cluster-id**
Description	IP addresses within the cluster list attribute to match the BGP route
Max. Elements	5
Introduced	16.0.R1
Notes	This element is part of a choice This element is ordered by user

none-cluster-list *boolean*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from cluster-id**
Description	Cluster ID
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

community

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the community context
Introduced	16.0.R1

count

Context	**configure policy-options policy-statement** *string* **entry** *number* **from community**
Description	Enter the count context
Introduced	16.0.R1

qualifier *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from community count**
Description	Higher or lower values to be accepted as match criteria
Default	equal
Options	equal, or-higher, or-lower
Introduced	16.0.R1

type *keyword*

Context **configure policy-options policy-statement** *string* **entry** *number* **from community count**

Description Communities count to match the community count criteria

Options standard, extended, large

Introduced 16.0.R1

value (*number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **from community count**

Description Number of BGP communities to match the BGP route

Introduced 16.0.R1

expression *string*

Context **configure policy-options policy-statement** *string* **entry** *number* **from community**

Description Community expression name as match criterion

String Length 1 to 900

Introduced 16.0.R1

Notes This element is part of a choice

name *string*

Context **configure policy-options policy-statement** *string* **entry** *number* **from community**

Description Community name to match

String Length 1 to 64

Introduced 16.0.R1

Notes This element is part of a choice

evpn-type *keyword*

Context **configure policy-options policy-statement** *string* **entry** *number* **from**

Description Configure an EVPN type as match criterion for the entry.

Options ethernet-auto-discovery, mac-ip-advertisement, inclusive-multicast, ethernet-segment, ip-prefix

Introduced 16.0.R1

external *boolean*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	External ISIS route as match criterion
Default	false
Introduced	16.0.R1

family *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Match address families to this this condition
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4
Max. Elements	20
Introduced	16.0.R1

flowspec

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the flowspec context
Introduced	16.0.R1

dest *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from flowspec**
Description	A prefix list of flowspec destination addresses as a match criterion for the entry.
String Length	1 to 32
Introduced	16.0.R1

source *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from flowspec**
Description	A prefix list of flowspec source addresses as a match criterion for the entry.
String Length	1 to 32
Introduced	16.0.R1

group-address *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Prefix list of multicast group addresses to use as match criterion
String Length	1 to 32
Introduced	16.0.R1

host-ip *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Prefix list of IGMP host IP addresses to use as a match criterion
String Length	1 to 32
Introduced	16.0.R1

interface *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Interface name as match criterion
String Length	1 to 32
Introduced	16.0.R1

level *number*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	ISIS route level as match criterion
Range	1 to 2
Introduced	16.0.R1

local-preference

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the local-preference context
Introduced	16.0.R1

qualifier *keyword*

Context **configure policy-options policy-statement** *string* **entry** *number* **from local-preference**
Description Higher or lower values to be accepted as match criteria
Default equal
Options equal, or-higher, or-lower
Introduced 16.0.R1

value (*number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **from local-preference**
Description BGP routes based on local preference value or variable name
Introduced 16.0.R1

metric

Context **configure policy-options policy-statement** *string* **entry** *number* **from**
Description Enter the metric context
Introduced 16.0.R1

qualifier *keyword*

Context **configure policy-options policy-statement** *string* **entry** *number* **from metric**
Description Higher or lower values to be accepted as match criteria
Default equal
Options equal, or-higher, or-lower
Introduced 16.0.R1

value (*number* | *string*)

Context **configure policy-options policy-statement** *string* **entry** *number* **from metric**
Description Local preference value, or variable name
Introduced 16.0.R1

mvpn-type *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	MVPN type as match criterion for the entry
Options	intra-as-ipmsi-auto-discovery, inter-as-ipmsi-auto-discovery, s-pmsi-auto-discovery, intra-as-segment-leaf-auto-discovery, source-active-auto-discovery, shared-tree-join, source-tree-join
Introduced	16.0.R1

neighbor

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the neighbor context
Introduced	16.0.R1

ip-address (*union* | *union*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from neighbor**
Description	IP address to match the neighbor
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-list *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from neighbor**
Description	Name to match the neighbor prefix list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

next-hop

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the next-hop context
Introduced	16.0.R1

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from next-hop**
Description	IP address of next hop to match
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-list *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from next-hop**
Description	Name of a next hop prefix list to match
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

origin *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Origin attribute as a match criterion
Options	igp, egp, incomplete, any, aaa, dynamic, static, bonding
Introduced	16.0.R1

origin-validation-state *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Origin attribute as a match criterion
Options	valid, not-found, invalid
Introduced	16.0.R1

ospf-type *number*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	OSPF type metric that is applied to routes that do not match any entry
Range	1 to 2
Introduced	16.0.R1

path-type *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Path type as a match criterion
Options	ibgp, ebgp
Introduced	16.0.R1

policy *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Policy statement as a match criterion
String Length	1 to 255
Introduced	16.0.R1

policy-variables

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the policy-variables context
Introduced	16.0.R1

name [variable-name] *policy-var-name*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from policy-variables**
Description	Enter the name context
Max. Elements	10
Introduced	16.0.R1

[variable-name] *policy-var-name*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from policy-variables name** *policy-var-name*
Description	Map a variable name starting and ending with an @ sign to a value, a number, or an address
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from policy-variables name** *policy-var-name*
Description	Variable name that is resolved to IP address
Introduced	16.0.R1
Notes	This element is part of a choice

number *number*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from policy-variables name** *policy-var-name*
Description	Variable name that is resolved to assigned value
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

value *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from policy-variables name** *policy-var-name*
Description	Variable name that is resolved to assigned value
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-list *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Prefix list as match criterion
String Length	1 to 32
Max. Elements	28
Introduced	16.0.R1
Notes	This element is ordered by user

protocol

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the protocol context
Introduced	16.0.R1

instance (*keyword* | *number*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from protocol**
Description	Protocol instance
Range	0 to 31 | 64 to 95
Default	0
Options	all
Introduced	16.0.R1

name *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from protocol**
Description	Protocol name to match on
Options	direct, static, bgp, isis, ospf, rip, aggregate, bgp-vpn, igmp, pim, ospf3, ldp, sub-mgmt, mld, managed, vpn-leak, nat, periodic, ipsec, dhcpv6-pd, dhcpv6-na, dhcpv6-ta, dhcpv6-pd-excl, ripng, bgp-label, direct-interface, arp-nd
Max. Elements	2
Introduced	16.0.R1

source-address

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Enter the source-address context
Introduced	16.0.R1

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from source-address**
Description	Source IP address to match
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-list *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from source-address**
Description	Name of a source address prefix list to match
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

state *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	State that is used as match criterion
Options	srrp-master, srrp-non-master, ipsec-master-with-peer, ipsec-master-without-peer, ipsec-non-master
Introduced	16.0.R1

tag (*number* | *keyword*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **from**
Description	Route tag as match criterion
Range	1 to 4294967295
Options	no-tag
Introduced	16.0.R1

to

Context	**configure policy-options policy-statement** *string* **entry** *number*
Description	Enter the to context
Introduced	16.0.R1

level *number*

Context	**configure policy-options policy-statement** *string* **entry** *number* **to**
Description	ISIS route level as match criterion
Range	1 to 2
Introduced	16.0.R1

neighbor

Context	**configure policy-options policy-statement** *string* **entry** *number* **to**
Description	Enter the neighbor context
Introduced	16.0.R1

ip-address (*union* | *union*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **to neighbor**
Description	IP address to match the neighbor
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-list *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **to neighbor**
Description	Name to match the neighbor prefix list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-list *string*

Context	**configure policy-options policy-statement** *string* **entry** *number* **to**
Description	Prefix list as match criterion
String Length	1 to 32
Max. Elements	28
Introduced	16.0.R1
Notes	This element is ordered by user

protocol

Context	**configure policy-options policy-statement** *string* **entry** *number* **to**
Description	Enter the protocol context
Introduced	16.0.R1

instance (*keyword* | *number*)

Context	**configure policy-options policy-statement** *string* **entry** *number* **to protocol**
Description	Instance for protocol ISIS, OSPF, or OSPF4
Range	0 to 31 | 64 to 95
Default	0
Options	all
Introduced	16.0.R1

name *keyword*

Context	**configure policy-options policy-statement** *string* **entry** *number* **to protocol**
Description	Protocol name to match
Options	bgp, isis, ospf, rip, bgp-vpn, ospf3, ldp, vpn-leak, ripng, bgp-label
Max. Elements	2
Introduced	16.0.R1

prefix-list [name] *string*

Context	**configure policy-options**
Description	Enter the prefix-list context
Introduced	16.0.R1

[name] *string*

Context	**configure policy-options prefix-list** *string*
Description	Prefix list name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*) **type** *keyword*

Context	**configure policy-options prefix-list** *string*
Description	Enter the prefix context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure policy-options prefix-list** *string* **prefix** (*ipv4-prefix* | *ipv6-prefix*) **type** *keyword*
Description IP prefix associated with prefix length
Introduced 16.0.R1
Notes This element is part of a list key

type *keyword*

Context **configure policy-options prefix-list** *string* **prefix** (*ipv4-prefix* | *ipv6-prefix*) **type** *keyword*
Description Prefix list
Options exact, longer, through, range
Introduced 16.0.R1
Notes This element is part of a list key

end-length *number*

Context **configure policy-options prefix-list** *string* **prefix** (*ipv4-prefix* | *ipv6-prefix*) **type** *keyword*
Description End in the prefix range length
Range 0 to 128
Introduced 16.0.R1
Notes This element is part of a choice

start-length *number*

Context **configure policy-options prefix-list** *string* **prefix** (*ipv4-prefix* | *ipv6-prefix*) **type** *keyword*
Description Start in the prefix range length
Range 0 to 128
Introduced 16.0.R1
Notes This element is part of a choice

through-length *number*

Context **configure policy-options prefix-list** *string* **prefix** (*ipv4-prefix* | *ipv6-prefix*) **type** *keyword*
Description Prefix through length
Range 0 to 128
Introduced 16.0.R1
Notes This element is part of a choice

25 port Commands

configure
- **port** *port*
  - **access**
    - **egress**
      - **pool** *string*
        - **amber-alarm-threshold** *number*
        - **red-alarm-threshold** *number*
        - **resv-cbs**
          - **amber-alarm-action**
            - **max** *number*
            - **step** *number*
          - **cbs** (*number* | *keyword*)
        - **slope-policy** *string*
    - **ingress**
      - **pool** *string*
        - **amber-alarm-threshold** *number*
        - **red-alarm-threshold** *number*
        - **resv-cbs**
          - **amber-alarm-action**
            - **max** *number*
            - **step** *number*
          - **cbs** (*number* | *keyword*)
        - **slope-policy** *string*
  - **admin-state** *keyword*
  - **connector**
    - **breakout** *keyword*
    - **rs-fec-mode** *keyword*
  - **ddm-events** *boolean*
  - **description** *string*
  - **dwdm**
    - **channel** *number*
    - **coherent**
      - **channel** *number*
      - **compatibility** *keyword*
      - **cpr-window-size** *number*
      - **dispersion** *number*
      - **mode** *keyword*
      - **report-alarm**
        - **hosttx** *boolean*
        - **mod** *boolean*
        - **modflt** *boolean*
        - **netrx** *boolean*
        - **nettx** *boolean*
      - **rx-los-reaction** *keyword*
      - **rx-los-thresh** *decimal-number*
      - **sweep**
        - **end** *number*
        - **start** *number*
      - **target-power** *decimal-number*
    - **rxdtv-adjust** *boolean*

```
        — wavetracker
            — encode
                — key1 number
                — key2 number
            — power-control
                — target-power decimal-number
            — report-alarm
                — encoder-degrade boolean
                — encoder-failure boolean
                — missing-pluggable-voa boolean
                — power-control-degrade boolean
                — power-control-failure boolean
                — power-control-high-limit boolean
                — power-control-low-limit boolean
    — ethernet
        — access
            — bandwidth number
            — booking-factor number
            — egress
                — queue-group string instance-id number
                    — accounting-policy string
                    — aggregate-rate
                        — limit-unused-bandwidth boolean
                        — queue-frame-based-accounting boolean
                        — rate (number | keyword)
                    — collect-stats boolean
                    — description string
                    — host-match
                        — int-dest-id destination-string
                    — hs-turbo boolean
                    — hsmda-queue-overrides
                        — packet-byte-offset number
                        — queue string
                            — mbs (number | keyword)
                            — rate (number | keyword)
                            — slope-policy string
                            — wrr-weight number
                        — secondary-shaper string
                        — wrr-policy string
                    — queue-overrides
                        — queue string
                            — adaptation-rule
                                — cir keyword
                                — pir keyword
                            — burst-limit (number | keyword)
                            — cbs (number | keyword)
                            — drop-tail
                                — low
                                    — percent-reduction-from-mbs (number | keyword)
                            — mbs (number | keyword)
                            — monitor-depth boolean
                            — parent
                                — cir-weight number
                                — weight number
```

```
                    — percent-rate
                        — cir decimal-number
                        — pir decimal-number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
                — scheduler-policy
                    — overrides
                        — scheduler string
                            — parent
                                — cir-weight number
                                — weight number
                            — rate
                                — cir (number | keyword)
                                — pir (number | keyword)
                    — policy-name string
            — virtual-port string
                — aggregate-rate
                    — limit-unused-bandwidth boolean
                    — rate (number | keyword)
                — description string
                — host-match
                    — int-dest-id destination-string
                — monitor-port-scheduler boolean
                — multicast-hqos-adjustment boolean
                — port-scheduler-policy string
                — scheduler-policy string
        — ingress
            — queue-group string
                — accounting-policy string
                — collect-stats boolean
                — description string
                — queue-overrides
                    — queue string
                        — adaptation-rule
                            — cir keyword
                            — pir keyword
                        — cbs (number | keyword)
                        — drop-tail
                            — low
                                — percent-reduction-from-mbs (number | keyword)
                        — mbs (number | keyword)
                        — monitor-depth boolean
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
                — scheduler-policy
                    — overrides
                        — scheduler string
                            — parent
                                — cir-weight number
                                — weight number
                            — rate
                                — cir (number | keyword)
```

```
                        — pir (number | keyword)
                    — policy-name string
— accounting-policy string
— autonegotiate keyword
— collect-stats boolean
— crc-monitor
    — signal-degrade
        — multiplier number
        — threshold number
    — signal-failure
        — multiplier number
        — threshold number
    — window-size number
— dampening
    — admin-state keyword
    — half-life number
    — max-suppress-time number
    — reuse-threshold number
    — suppress-threshold number
— dot1q-etype etype
— dot1x
    — macsec
        — exclude-mac-policy string
        — exclude-protocol
            — cdp boolean
            — eapol-start boolean
            — efm-oam boolean
            — eth-cfm boolean
            — lacp boolean
            — lldp boolean
        — rx-must-be-encrypted boolean
        — sub-port number
            — admin-state keyword
            — ca-name string
            — eapol-destination-address mac-address
            — max-peers number
    — max-authentication-requests number
    — port-control keyword
    — quiet-period number
    — radius-policy string
    — re-authentication
        — period number
    — server-timeout number
    — supplicant-timeout number
    — transmit-period number
    — tunneling boolean
— down-on-internal-error
    — tx-laser keyword
— down-when-looped
    — admin-state keyword
    — keep-alive number
    — retry-timeout number
    — use-broadcast-address boolean
— duplex keyword
```

- **efm-oam**
  - **accept-remote-loopback** *boolean*
  - **admin-state** *keyword*
  - **discovery**
    - **advertise-capabilities**
      - **link-monitoring** *boolean*
  - **dying-gasp-tx-on-reset** *boolean*
  - **grace-tx** *boolean*
  - **grace-vendor-oui** *string*
  - **hold-time** *number*
  - **ignore-efm-state** *boolean*
  - **link-monitoring**
    - **admin-state** *keyword*
    - **errored-frame**
      - **admin-state** *keyword*
      - **event-notification** *boolean*
      - **sd-threshold** *number*
      - **sf-threshold** *number*
      - **window** *number*
    - **errored-frame-period**
      - **admin-state** *keyword*
      - **event-notification** *boolean*
      - **sd-threshold** *number*
      - **sf-threshold** *number*
      - **window** *number*
    - **errored-frame-seconds**
      - **admin-state** *keyword*
      - **event-notification** *boolean*
      - **sd-threshold** *number*
      - **sf-threshold** *number*
      - **window** *number*
    - **errored-symbols**
      - **admin-state** *keyword*
      - **event-notification** *boolean*
      - **sd-threshold** *number*
      - **sf-threshold** *number*
      - **window** *number*
    - **local-sf-action**
      - **event-notification-burst** *number*
      - **info-notification**
        - **critical-event** *boolean*
        - **dying-gasp** *boolean*
      - **local-port-action** *keyword*
  - **mode** *keyword*
  - **multiplier** *number*
  - **peer-rdi-rx**
    - **critical-event** *keyword*
    - **dying-gasp** *keyword*
    - **event-notification** *keyword*
    - **link-fault** *keyword*
  - **transmit-interval** *number*
  - **trigger-fault** *keyword*
  - **tunneling** *boolean*
- **egress**

```
— eth-bn-rate-changes boolean
— expanded-secondary-shaper string
   — aggregate-burst
      — high-burst-increase number
      — low-burst-limit number
   — class number
      — burst-limit number
      — monitor-threshold number
      — rate (kilobytes | keyword)
   — low-burst-max-class number
   — monitor-threshold number
   — rate (kilobytes | keyword)
— hs-port-pool-policy string
— hs-scheduler-policy
   — policy-name string
— hsmda-scheduler-policy string
— monitor-port-scheduler boolean
— port-scheduler-policy
   — overrides
      — level number
         — percent-rate
            — cir decimal-number
            — pir decimal-number
         — rate
            — cir (number | keyword)
            — pir (number | keyword)
      — max-rate
         — percent-rate decimal-number
         — rate (number | keyword)
   — policy-name string
— rate number
— elmi
   — mode keyword
   — n393 number
   — t391 number
   — t392 number
— encap-type keyword
— eth-cfm
   — mep md-admin-name string ma-admin-name string mep-id number
      — admin-state keyword
      — ais
         — client-meg-level number
         — interface-support boolean
         — interval number
         — low-priority-defect keyword
         — priority number
      — alarm-notification
         — fng-alarm-time number
         — fng-reset-time number
      — ccm boolean
      — ccm-ltm-priority number
      — ccm-padding-size number
      — collect-lmm-stats boolean
      — csf
```

- **multiplier** *decimal-number*
- **description** *string*
- **eth-bn**
  - **receive** *boolean*
  - **rx-update-pacing** *number*
- **eth-test**
  - **bit-error-threshold** *number*
  - **test-pattern**
    - **crc-tlv** *boolean*
    - **pattern** *keyword*
- **facility-fault** *boolean*
- **grace**
  - **eth-ed**
    - **max-rx-defect-window** *number*
    - **priority** *number*
    - **rx-eth-ed** *boolean*
    - **tx-eth-ed** *boolean*
  - **eth-vsm-grace**
    - **rx-eth-vsm-grace** *boolean*
    - **tx-eth-vsm-grace** *boolean*
- **low-priority-defect** *keyword*
- **mac-address** *mac-unicast-address*
- **one-way-delay-threshold** *number*
- **vlan** (*number* | *keyword*)

- **hold-time**
  - **down** *number*
  - **units** *keyword*
  - **up** *number*
- **hsmda-scheduler-overrides**
  - **group** *number*
    - **rate** (*number* | *keyword*)
  - **max-rate** (*number* | *keyword*)
  - **scheduling-class** *number*
    - **rate** (*number* | *keyword*)
    - **weight-in-group** *number*
- **ingress**
  - **rate** *number*
- **lacp-tunnel** *boolean*
- **lldp**
  - **dest-mac** *keyword*
    - **notification** *boolean*
    - **port-id-subtype** *keyword*
    - **receive** *boolean*
    - **transmit** *boolean*
    - **tunnel-nearest-bridge** *boolean*
    - **tx-mgmt-address** *keyword*
      - **admin-state** *keyword*
    - **tx-tlvs**
      - **port-desc** *boolean*
      - **sys-cap** *boolean*
      - **sys-desc** *boolean*
      - **sys-name** *boolean*
- **load-balancing-algorithm** *keyword*
- **mac-address** *mac-address*

- **min-frame-length** *number*
- **mode** *keyword*
- **mtu** *number*
- **network**
  - **accounting-policy** *string*
  - **collect-stats** *boolean*
  - **egress**
    - **queue-group** *string* **instance-id** *number*
      - **accounting-policy** *string*
      - **aggregate-rate**
        - **limit-unused-bandwidth** *boolean*
        - **queue-frame-based-accounting** *boolean*
        - **rate** (*number* | *keyword*)
      - **collect-stats** *boolean*
      - **description** *string*
      - **hs-turbo** *boolean*
      - **policer-control-policy** *string*
      - **queue-overrides**
        - **queue** *string*
          - **adaptation-rule**
            - **cir** *keyword*
            - **pir** *keyword*
          - **cbs** (*number* | *keyword*)
          - **drop-tail**
            - **low**
              - **percent-reduction-from-mbs** (*number* | *keyword*)
          - **mbs** (*number* | *keyword*)
          - **monitor-depth** *boolean*
          - **percent-rate**
            - **cir** *decimal-number*
            - **pir** *decimal-number*
          - **rate**
            - **cir** (*number* | *keyword*)
            - **pir** (*number* | *keyword*)
      - **scheduler-policy** *string*
    - **queue-policy** *string*
- **pbb-etype** *etype*
- **ptp-asymmetry** *number*
- **qinq-etype** *etype*
- **report-alarm**
  - **alignment-marker-not-locked** *boolean*
  - **block-not-locked** *boolean*
  - **duplicate-lane** *boolean*
  - **frame-not-locked** *boolean*
  - **high-ber** *boolean*
  - **local** *boolean*
  - **remote** *boolean*
  - **signal-fail** *boolean*
- **rs-fec-mode** *keyword*
- **single-fiber** *boolean*
- **speed** *number*
- **ssm**
  - **admin-state** *keyword*
  - **code-type** *keyword*

```
        — tx-dus boolean
    — symbol-monitor
        — admin-state keyword
        — signal-degrade
            — multiplier number
            — threshold number
        — signal-failure
            — multiplier number
            — threshold number
        — window-size number
    — util-stats-interval number
    — xgig keyword
— hybrid-buffer-allocation
    — egress-weight
        — access number
        — network number
    — ingress-weight
        — access number
        — network number
— modify-buffer-allocation
    — percentage-of-rate
        — egress number
        — ingress number
— monitor-agg-egress-queue-stats boolean
— named-pool-mode
    — egress
        — named-pool-policy string
    — ingress
        — named-pool-policy string
— network
    — egress
        — pool string
            — amber-alarm-threshold number
            — red-alarm-threshold number
            — resv-cbs
                — amber-alarm-action
                    — max number
                    — step number
                — cbs (number | keyword)
            — slope-policy string
— otu
    — async-mapping boolean
    — fec keyword
    — fine-granularity-ber
        — signal-degrade
            — clear
                — multiplier number
                — threshold number
            — raise
                — multiplier number
                — threshold number
        — signal-failure
            — clear
                — multiplier number
```

- **threshold** *number*
- **raise**
  - **multiplier** *number*
  - **threshold** *number*
- **otu2-lan-data-rate** *keyword*
- **path-monitoring**
  - **trail-trace-identifier**
    - **expected**
      - **auto-generated**
      - **bytes** *string*
      - **string** *string*
    - **mismatch-reaction** *keyword*
    - **transmit**
      - **auto-generated**
      - **bytes** *string*
      - **string** *string*
- **payload-structure-identifier**
  - **payload**
    - **expected** *keyword*
    - **mismatch-reaction** *keyword*
    - **transmit** *keyword*
- **report-alarm**
  - **fec-fail** *boolean*
  - **fec-sd** *boolean*
  - **fec-sf** *boolean*
  - **fec-uncorr** *boolean*
  - **loc** *boolean*
  - **lof** *boolean*
  - **lom** *boolean*
  - **los** *boolean*
  - **odu-ais** *boolean*
  - **odu-bdi** *boolean*
  - **odu-lck** *boolean*
  - **odu-oci** *boolean*
  - **odu-tim** *boolean*
  - **opu-plm** *boolean*
  - **otu-ais** *boolean*
  - **otu-bdi** *boolean*
  - **otu-ber-sd** *boolean*
  - **otu-ber-sf** *boolean*
  - **otu-biae** *boolean*
  - **otu-iae** *boolean*
  - **otu-tim** *boolean*
- **sd-threshold** *number*
- **section-monitoring**
  - **trail-trace-identifier**
    - **expected**
      - **auto-generated**
      - **bytes** *string*
      - **string** *string*
    - **mismatch-reaction** *keyword*
    - **transmit**
      - **auto-generated**
      - **bytes** *string*

- **string** *string*
- **sf-sd-method** *keyword*
- **sf-threshold** *number*

- **sonet-sdh**
  - **clock-source** *keyword*
  - **framing** *keyword*
  - **hold-time**
    - **down** *number*
    - **up** *number*
  - **loopback** *keyword*
  - **report-alarm**
    - **lais** *boolean*
    - **lb2er-sd** *boolean*
    - **lb2er-sf** *boolean*
    - **loc** *boolean*
    - **lrdi** *boolean*
    - **lrei** *boolean*
    - **slof** *boolean*
    - **slos** *boolean*
    - **ss1f** *boolean*
  - **reset-port-on-path-down** *boolean*
  - **sd-threshold** *number*
  - **section-trace**
    - **byte** *string*
    - **increment-z0**
    - **string** *string*
  - **sf-threshold** *number*
  - **single-fiber** *boolean*
  - **speed** *keyword*
  - **suppress-low-order-alarms** *boolean*
  - **tx-dus** *boolean*
- **transceiver**
  - **digital-coherent-optics** *boolean*

25.1 port Command Descriptions

port [port-id] *port*

Context	**configure**
Description	Enter the port context
Introduced	16.0.R1

[port-id] *port*

Context	**configure port** *port*
Description	Unique port ID
Introduced	16.0.R1
Notes	This element is part of a list key

access

Context	**configure port** *port*
Description	Enter the access context
Introduced	16.0.R1

egress

Context	**configure port** *port* **access**
Description	Enter the egress context
Introduced	16.0.R1

pool [name] *string*

Context	**configure port** *port* **access egress**
Description	Enter the pool context
Introduced	16.0.R1

[name] *string*

Context	**configure port** *port* **access egress pool** *string*
Description	Pool name for access port
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure port** *port* **access egress pool** *string*
Description	Threshold for amber alarm on oversubscription
Range	1 to 1000
Units	percent
Introduced	16.0.R1

red-alarm-threshold *number*

Context	**configure port** *port* **access egress pool** *string*
Description	Threshold for red alarm on oversubscription
Range	1 to 1000
Units	percent
Introduced	16.0.R1

resv-cbs

Context	**configure port** *port* **access egress pool** *string*
Description	Enter the resv-cbs context
Introduced	16.0.R1

amber-alarm-action

Context	**configure port** *port* **access egress pool** *string* **resv-cbs**
Description	Enter the amber-alarm-action context
Introduced	16.0.R1

max *number*

Context **configure port** *port* **access egress pool** *string* **resv-cbs amber-alarm-action**
Description Maximum percentage for reserved CBS of pool
Range 1 to 100
Units percent
Introduced 16.0.R1

step *number*

Context **configure port** *port* **access egress pool** *string* **resv-cbs amber-alarm-action**
Description Step-size percentage for reserved CBS of pool
Range 1 to 100
Units percent
Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure port** *port* **access egress pool** *string* **resv-cbs**
Description Percentage of pool size reserved for CBS
Range 0 to 100
Default auto
Units percent
Options auto
Introduced 16.0.R1

slope-policy *string*

Context **configure port** *port* **access egress pool** *string*
Description Slope policy for high and low priority RED slope parameters and time average factor
Reference configure **qos slope-policy** *string*
Introduced 16.0.R1

ingress

Context **configure port** *port* **access**
Description Enter the ingress context
Introduced 16.0.R1

pool [name] *string*

Context	**configure port** *port* **access ingress**
Description	Enter the pool context
Introduced	16.0.R1

[name] *string*

Context	**configure port** *port* **access ingress pool** *string*
Description	Pool name for access port
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure port** *port* **access ingress pool** *string*
Description	Threshold for amber alarm on oversubscription
Range	1 to 1000
Units	percent
Introduced	16.0.R1

red-alarm-threshold *number*

Context	**configure port** *port* **access ingress pool** *string*
Description	Threshold for red alarm on oversubscription
Range	1 to 1000
Units	percent
Introduced	16.0.R1

resv-cbs

Context	**configure port** *port* **access ingress pool** *string*
Description	Enter the resv-cbs context
Introduced	16.0.R1

amber-alarm-action

Context	**configure port** *port* **access ingress pool** *string* **resv-cbs**
Description	Enter the amber-alarm-action context
Introduced	16.0.R1

max *number*

Context	**configure port** *port* **access ingress pool** *string* **resv-cbs amber-alarm-action**
Description	Maximum percentage for reserved CBS of pool
Range	1 to 100
Units	percent
Introduced	16.0.R1

step *number*

Context	**configure port** *port* **access ingress pool** *string* **resv-cbs amber-alarm-action**
Description	Step-size percentage for reserved CBS of pool
Range	1 to 100
Units	percent
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context	**configure port** *port* **access ingress pool** *string* **resv-cbs**
Description	Percentage of pool size reserved for CBS
Range	0 to 100
Default	auto
Units	percent
Options	auto
Introduced	16.0.R1

slope-policy *string*

Context	**configure port** *port* **access ingress pool** *string*
Description	Slope policy for high and low priority RED slope parameters and time average factor
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure port** *port*
Description	Administrative state of this port
Options	enable, disable
Introduced	16.0.R1

connector

Context	**configure port** *port*
Description	Enter the connector context
Introduced	16.0.R1

breakout *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure port** *port* **connector**
Description	Breakout for this connector port
Options	c1-40g, c4-10g, c1-100g, c4-25g, c10-10g, c1-400g, c2-100g
Introduced	16.0.R1

rs-fec-mode *keyword*

Context	**configure port** *port* **connector**
Description	Configure the RS FEC mode for this connector.
Options	cl91-514-528, cl91-514-544
Introduced	16.0.R3

ddm-events *boolean*

Context	**configure port** *port*
Description	Enable Digital Diagnostic Monitoring (DDM) events
Default	true
Introduced	16.0.R1

description *string*

Context	**configure port** *port*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dwdm

Context	**configure port** *port*
Description	Enter the dwdm context
Introduced	16.0.R1

channel *number*

Context	**configure port** *port* **dwdm**
Description	DWDM channel number
Range	17 to 61 | 170 to 610
Introduced	16.0.R1

coherent

Context	**configure port** *port* **dwdm**
Description	Enter the coherent context
Introduced	16.0.R1

channel *number*

Context	**configure port** *port* **dwdm coherent**
Description	Received channel number
Range	17 to 61 | 170 to 610
Introduced	16.0.R1

compatibility *keyword*

Context	**configure port** *port* **dwdm coherent**
Description	Optical mode and rate of operation
Default	long-haul
Options	long-haul, metro, access, interop, interop2, interop3
Introduced	16.0.R1

cpr-window-size *number*

Context	**configure port** *port* **dwdm coherent**
Description	Window size for the carrier phase recovery
Range	2 | 4 | 8 | 16 | 32 | 64
Default	32
Units	symbols
Introduced	16.0.R1

dispersion *number*

Context	**configure port** *port* **dwdm coherent**
Description	Dispersion compensation
Range	-50000 to 50000
Units	picoseconds per nanometer
Introduced	16.0.R1

mode *keyword*

Context	**configure port** *port* **dwdm coherent**
Description	Dispersion algorithm mode
Default	automatic
Options	automatic, manual
Introduced	16.0.R1

report-alarm

Context	**configure port** *port* **dwdm coherent**
Description	Enter the report-alarm context
Introduced	16.0.R1

hosttx *boolean*

Context	**configure port** *port* **dwdm coherent report-alarm**
Description	Report host (electrical side) transmit alarm
Default	true
Introduced	16.0.R1

mod *boolean*

Context	**configure port** *port* **dwdm coherent report-alarm**
Description	Report module alarm
Default	true
Introduced	16.0.R1

modflt *boolean*

Context	**configure port** *port* **dwdm coherent report-alarm**
Description	Report module fault alarm
Default	true
Introduced	16.0.R1

netrx *boolean*

Context	**configure port** *port* **dwdm coherent report-alarm**
Description	Report network (optical side) receive alarm
Default	true
Introduced	16.0.R1

nettx *boolean*

Context	**configure port** *port* **dwdm coherent report-alarm**
Description	Report network (optical side) transmit alarm
Default	true
Introduced	16.0.R1

rx-los-reaction *keyword*

Context	**configure port** *port* **dwdm coherent**
Description	Reaction to RX LOS
Default	squelch
Options	none, squelch
Introduced	16.0.R1

rx-los-thresh *decimal-number*

Context	**configure port** *port* **dwdm coherent**
Description	LOS threshold of the average input power
Range	-24 to -13
Default	-23
Units	decibels per milliwatt
Introduced	16.0.R1

sweep

Context	**configure port** *port* **dwdm coherent**
Description	Enter the sweep context
Introduced	16.0.R1

end *number*

Context	**configure port** *port* **dwdm coherent sweep**
Description	End value of dispersion sweeping
Range	-50000 to 50000
Default	2000
Units	picoseconds per nanometer
Introduced	16.0.R1

start *number*

Context	**configure port** *port* **dwdm coherent sweep**
Description	Start value of dispersion sweeping
Range	-50000 to 50000
Default	-25500
Units	picoseconds per nanometer
Introduced	16.0.R1

target-power *decimal-number*

Context	**configure port** *port* **dwdm coherent**
Description	Target for average of the output power
Range	-20 to 3
Default	1
Units	decibels per milliwatt
Introduced	16.0.R1

rxdtv-adjust *boolean*

Context	**configure port** *port* **dwdm**
Description	Adjust feedback for received decision threshold voltage
Introduced	16.0.R1

wavetracker

Context	**configure port** *port* **dwdm**
Description	Enter the wavetracker context
Introduced	16.0.R4

encode

Context	**configure port** *port* **dwdm wavetracker**
Description	Enter the encode context
Introduced	16.0.R4

key1 *number*

Context	**configure port** *port* **dwdm wavetracker encode**
Description	Configure the first wavetracker key.
Range	1 to 4095
Introduced	16.0.R4
Notes	This element is mandatory

key2 *number*

Context	**configure port** *port* **dwdm wavetracker encode**
Description	Configure the second wavetracker key.
Range	1 to 4095
Introduced	16.0.R4
Notes	This element is mandatory

power-control

Context	**configure port** *port* **dwdm wavetracker**
Description	Enter the power-control context
Introduced	16.0.R4

target-power *decimal-number*

Context	**configure port** *port* **dwdm wavetracker power-control**
Description	Configure desired average output power.
Range	-22 to 3
Default	-20
Units	decibels per milliwatt
Introduced	16.0.R4

report-alarm

Context	**configure port** *port* **dwdm wavetracker**
Description	Enter the report-alarm context
Introduced	16.0.R4

encoder-degrade *boolean*

Context **configure port** *port* **dwdm wavetracker report-alarm**

Description Enable/disable encoder-degrade alarm.

Default true

Introduced 16.0.R4

encoder-failure *boolean*

Context **configure port** *port* **dwdm wavetracker report-alarm**

Description Enable/disable encoder-failure alarm.

Default true

Introduced 16.0.R4

missing-pluggable-voa *boolean*

Context **configure port** *port* **dwdm wavetracker report-alarm**

Description Enable/disable missing-pluggable-voa alarm.

Default true

Introduced 16.0.R4

power-control-degrade *boolean*

Context **configure port** *port* **dwdm wavetracker report-alarm**

Description Enable/disable power-control-degrade alarm.

Default true

Introduced 16.0.R4

power-control-failure *boolean*

Context **configure port** *port* **dwdm wavetracker report-alarm**

Description Enable/disable power-control-failure alarm.

Default true

Introduced 16.0.R4

power-control-high-limit *boolean*

Context	**configure port** *port* **dwdm wavetracker report-alarm**
Description	Enable/disable power-control-high-limit alarm.
Default	true
Introduced	16.0.R4

power-control-low-limit *boolean*

Context	**configure port** *port* **dwdm wavetracker report-alarm**
Description	Enable/disable power-control-low-limit alarm.
Default	true
Introduced	16.0.R4

ethernet

Context	**configure port** *port*
Description	Enter the ethernet context
Introduced	16.0.R1

access

Context	**configure port** *port* **ethernet**
Description	Enter the access context
Introduced	16.0.R1

bandwidth *number*

Context	**configure port** *port* **ethernet access**
Description	Bandwidth of the Ethernet port
Range	1 to 3200000000
Units	kilobps
Introduced	16.0.R1

booking-factor *number*

Context	**configure port** *port* **ethernet access**
Description	Booking factor of the Ethernet port
Range	1 to 1000
Default	100
Introduced	16.0.R1

egress

Context	**configure port** *port* **ethernet access**
Description	Enter the egress context
Introduced	16.0.R1

queue-group [queue-group-name] *string* **instance-id** *number*

Context	**configure port** *port* **ethernet access egress**
Description	Enter the queue-group context
Introduced	16.0.R1

[queue-group-name] *string*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Queue group name
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

instance-id *number*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Instance ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*

Description Accounting policy for the Ethernet port egress queue group

Reference configure **log accounting-policy** *number*

Introduced 16.0.R1

aggregate-rate

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*

Description Enter the aggregate-rate context

Introduced 16.0.R1

limit-unused-bandwidth *boolean*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **aggregate-rate**

Description Specify whether to enable limit unused bandwidth.

Default false

Introduced 16.0.R4

queue-frame-based-accounting *boolean*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **aggregate-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **aggregate-rate**

Description Specify aggregate rate limit.

Range 1 to 3200000000

Default max

Units kilobps

Options max

Introduced 16.0.R4

collect-stats *boolean*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Collect statistics on this queue group
Default	false
Introduced	16.0.R1

description *string*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

host-match

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Enter the host-match context
Introduced	16.0.R1

int-dest-id [destination-string] *destination-string*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **host-match**
Description	Enter the int-dest-id context
Introduced	16.0.R1

[destination-string] *int-dest-id*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **host-match int-dest-id** *destination-string*
Description	Specifies the destination string.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

hs-turbo *boolean*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Allow corresponding HSQ queue group queues to achieve a higher throughput
Default	false
Introduced	16.0.R1

hsmda-queue-overrides

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*
Description	Enter the hsmda-queue-overrides context
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides**
Description	Packet offset for HSMDA queue accounting
Range	-64 to 31
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides**
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *string*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides queue** *string*
Description	HSMDA queue overrides queue ID
Reference	configure **qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides queue** *string*

Description Maximum buffer space override

Units bytes

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides queue** *string*

Description PIR

Units kilobps

Introduced 16.0.R1

slope-policy *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides queue** *string*

Description Slope policy

Reference configure **qos hsmda-slope-policy** *string*

Introduced 16.0.R1

wrr-weight *number*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides queue** *string*

Description Weighted round robin (WRR)

Range 1 to 32

Introduced 16.0.R1

secondary-shaper *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides**

Description HSMDA egress secondary shaper

Reference configure **port** *port* **ethernet egress expanded-secondary-shaper** *string*

Introduced 16.0.R1

wrr-policy *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **hsmda-queue-overrides**

Description HSMDA egress WRR policy

Reference configure **qos hsmda-wrr-policy** *string*

Introduced 16.0.R1

queue-overrides

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*

Description Enter the queue-overrides context

Introduced 16.0.R1

queue [queue-id] *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides**

Description Enter the queue context

Introduced 16.0.R1

[queue-id] *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description HSMDA queue overrides queue ID

Reference configure **qos queue-group-templates egress queue-group** *string* **queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

adaptation-rule

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

burst-limit (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Burst limit

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description CBS rate

Introduced 16.0.R1

drop-tail

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description MBS rate

Units bytes

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enable queue depth monitoring

Default false

Introduced 16.0.R1

parent

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **parent**
Description	CIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

weight *number*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **parent**
Description	PIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

percent-rate

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Units	percent
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Units	percent
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **rate**
Description	CIR rate
Units	kilobps
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **rate**
Description	PIR rate
Units	kilobps
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-policy

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number*

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R1

scheduler [scheduler-name] *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R1

[scheduler-name] *string*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string*

Description Scheduler name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string* **parent**

Description CIR parameter that overrides parent

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string* **parent**

Description PIR parameter that overrides parent

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string* **rate**

Description CIR rate

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy overrides scheduler** *string* **rate**

Description PIR rate

Units kilobps

Introduced 16.0.R1

policy-name *string*

Context	**configure port** *port* **ethernet access egress queue-group** *string* **instance-id** *number* **scheduler-policy**
Description	Scheduler policy for the QoS egress queue group
Reference	configure **qos scheduler-policy** *string*
Introduced	16.0.R1

virtual-port [vport-name] *string*

Context	**configure port** *port* **ethernet access egress**
Description	Enter the virtual-port context
Introduced	16.0.R4

[vport-name] *string*

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Specifies the name of the virtual port on the port.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

aggregate-rate

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Enter the aggregate-rate context
Introduced	16.0.R4

limit-unused-bandwidth *boolean*

Context	**configure port** *port* **ethernet access egress virtual-port** *string* **aggregate-rate**
Description	Specify whether to enable limit unused bandwidth.
Default	false
Introduced	16.0.R4

rate (*number* | *keyword*)

Context	**configure port** *port* **ethernet access egress virtual-port** *string* **aggregate-rate**
Description	Specify aggregate rate limit.
Range	1 to 3200000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R4

description *string*

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Add/remove a text description for the virtual port.
String Length	1 to 80
Introduced	16.0.R4

host-match

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Enter the host-match context
Introduced	16.0.R4

int-dest-id [destination-string] *destination-string*

Context	**configure port** *port* **ethernet access egress virtual-port** *string* **host-match**
Description	Enter the int-dest-id context
Introduced	16.0.R4

[destination-string] *int-dest-id*

Context	**configure port** *port* **ethernet access egress virtual-port** *string* **host-match int-dest-id** *destination-string*
Description	Specifies the destination string.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

monitor-port-scheduler *boolean*

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Enable/Disable monitoring of port scheduler.
Default	false
Introduced	16.0.R4

multicast-hqos-adjustment *boolean*

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Enable/disable the egress rate modification.
Default	false
Introduced	16.0.R4

port-scheduler-policy *string*

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Configure port scheduler policy.
Reference	configure **qos port-scheduler-policy** *string*
Introduced	16.0.R4

scheduler-policy *string*

Context	**configure port** *port* **ethernet access egress virtual-port** *string*
Description	Apply an egress scheduler policy.
Reference	configure **qos scheduler-policy** *string*
Introduced	16.0.R4

ingress

Context	**configure port** *port* **ethernet access**
Description	Enter the ingress context
Introduced	16.0.R1

queue-group [queue-group-name] *string*

Context	**configure port** *port* **ethernet access ingress**
Description	Enter the queue-group context
Introduced	16.0.R1

[queue-group-name] *string*

Context	**configure port** *port* **ethernet access ingress queue-group** *string*
Description	Queue group name
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure port** *port* **ethernet access ingress queue-group** *string*
Description	Accounting policy for the Ethernet port egress queue group
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure port** *port* **ethernet access ingress queue-group** *string*
Description	Collect statistics on this queue group
Default	false
Introduced	16.0.R1

description *string*

Context	**configure port** *port* **ethernet access ingress queue-group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

queue-overrides

Context	**configure port** *port* **ethernet access ingress queue-group** *string*
Description	Enter the queue-overrides context
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides**
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *string*

Context	**configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*
Description	HSMDA queue overrides queue ID
Reference	configure **qos queue-group-templates ingress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*

Description CBS rate

Introduced 16.0.R1

drop-tail

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*

Description MBS rate

Units bytes

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*

Description Enable queue depth monitoring

Default false

Introduced 16.0.R1

rate

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string* **rate**

Description CIR rate

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **queue-overrides queue** *string* **rate**

Description PIR rate

Units kilobps

Introduced 16.0.R1

scheduler-policy

Context **configure port** *port* **ethernet access ingress queue-group** *string*

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R1

scheduler [scheduler-name] *string*

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R1

[scheduler-name] *string*

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string*

Description Scheduler name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string* **parent**

Description CIR parameter that overrides parent

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string* **parent**

Description PIR parameter that overrides parent

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string* **rate**

Description CIR rate

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy overrides scheduler** *string* **rate**

Description PIR rate

Units kilobps

Introduced 16.0.R1

policy-name *string*

Context	**configure port** *port* **ethernet access ingress queue-group** *string* **scheduler-policy**
Description	Scheduler policy for the Ethernet port ingress queue group
Reference	configure **qos scheduler-policy** *string*
Introduced	16.0.R1

accounting-policy *string*

Context	**configure port** *port* **ethernet**
Description	Accounting policy that applis to the Ethernet port
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

autonegotiate *keyword*

Context	**configure port** *port* **ethernet**
Description	Speed and duplex autonegotiation on the Ethernet port
Options	true, false, limited
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure port** *port* **ethernet**
Description	Collect statistical data on the Ethernet port
Default	false
Introduced	16.0.R1

crc-monitor

Context	**configure port** *port* **ethernet**
Description	Enter the crc-monitor context
Introduced	16.0.R1

signal-degrade

Context	**configure port** *port* **ethernet crc-monitor**
Description	Enter the signal-degrade context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **ethernet crc-monitor signal-degrade**
Description	SD multiplier
Range	1 to 9
Default	1
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **ethernet crc-monitor signal-degrade**
Description	SD threshold
Range	1 to 9
Introduced	16.0.R1

signal-failure

Context	**configure port** *port* **ethernet crc-monitor**
Description	Enter the signal-failure context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **ethernet crc-monitor signal-failure**
Description	SF multiplier
Range	1 to 9
Default	1
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **ethernet crc-monitor signal-failure**
Description	SF threshold
Range	1 to 9
Introduced	16.0.R1

window-size *number*

Context	**configure port** *port* **ethernet crc-monitor**
Description	Window size of the monitor
Range	5 to 60
Default	10
Units	seconds
Introduced	16.0.R1

dampening

Context	**configure port** *port* **ethernet**
Description	Enter the dampening context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure port** *port* **ethernet dampening**
Description	Administrative state of exponential port dampening on the port
Default	disable
Options	enable, disable
Introduced	16.0.R1

half-life *number*

Context	**configure port** *port* **ethernet dampening**
Description	Half-life decay time
Range	1 to 2000
Default	5
Units	seconds
Introduced	16.0.R1

max-suppress-time *number*

Context	**configure port** *port* **ethernet dampening**
Description	Maximum time for which the port-up state is suppressed
Range	1 to 43200
Default	20
Units	seconds
Introduced	16.0.R1

reuse-threshold *number*

Context	**configure port** *port* **ethernet dampening**
Description	Port-up state no longer suppressed after penalties fall below reuse threshold
Range	1 to 20000
Default	1000
Units	penalties
Introduced	16.0.R1

suppress-threshold *number*

Context	**configure port** *port* **ethernet dampening**
Description	Penalties threshold above which port-up state is suppressed
Range	1 to 20000
Default	2000
Units	penalties
Introduced	16.0.R1

dot1q-etype *etype*

Context	**configure port** *port* **ethernet**
Description	Dot1q Ethertype on the Ethernet port
Default	33024
Introduced	16.0.R1

dot1x

Context	**configure port** *port* **ethernet**
Description	Enter the dot1x context
Introduced	16.0.R1

macsec

Context	**configure port** *port* **ethernet dot1x**
Description	Enter the macsec context
Introduced	16.0.R1

exclude-mac-policy *string*

Context	**configure port** *port* **ethernet dot1x macsec**
Description	Configure the policy of mac addresses to be excluded.
Reference	configure **macsec mac-policy** *number*
Introduced	16.0.R5

exclude-protocol

Context	**configure port** *port* **ethernet dot1x macsec**
Description	Enter the exclude-protocol context
Introduced	16.0.R1

cdp *boolean*

Context	**configure port** *port* **ethernet dot1x macsec exclude-protocol**
Description	Disable MACsec for all packets that are sent and received on the link for CDP (protocol)
Default	false
Introduced	16.0.R1

eapol-start *boolean*

Context	**configure port** *port* **ethernet dot1x macsec exclude-protocol**
Description	Disable MACsec for all packets that are sent and received on the link for EAPOL (protocol)
Default	false
Introduced	16.0.R1

efm-oam *boolean*

Context	**configure port** *port* **ethernet dot1x macsec exclude-protocol**
Description	Disable MACsec for all packets that are sent and received on the link for EFM OAM (protocol)
Default	false
Introduced	16.0.R1

eth-cfm *boolean*

Context	**configure port** *port* **ethernet dot1x macsec exclude-protocol**
Description	Disable MACsec for all packets that are sent and received on the link for ETH CFM (protocol)
Default	false
Introduced	16.0.R1

lacp *boolean*

Context	**configure port** *port* **ethernet dot1x macsec exclude-protocol**
Description	Disable MACsec for all packets that are sent and received on the link for LACP (protocol)
Default	false
Introduced	16.0.R1

lldp *boolean*

Context	**configure port** *port* **ethernet dot1x macsec exclude-protocol**
Description	Disable MACsec for all packets that are sent and received on the link for LLDP (protocol)
Default	false
Introduced	16.0.R1

rx-must-be-encrypted *boolean*

Context	**configure port** *port* **ethernet dot1x macsec**
Description	Drop all port traffic that is not MACsec-secured
Default	false
Introduced	16.0.R1

sub-port [sub-port-id] *number*

Context	**configure port** *port* **ethernet dot1x macsec**
Description	Enter the sub-port context
Introduced	16.0.R1

[sub-port-id] *number*

Context	**configure port** *port* **ethernet dot1x macsec sub-port** *number*
Description	Specifies the sub-port ID on the port.
Range	1 to 1023
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure port** *port* **ethernet dot1x macsec sub-port** *number*
Description	Administrative state of MACsec on this port
Default	disable
Options	enable, disable
Introduced	16.0.R1

ca-name *string*

Context	**configure port** *port* **ethernet dot1x macsec sub-port** *number*
Description	Configure the connectivity association to be used for this port.
Reference	configure **macsec connectivity-association** *string*
Introduced	16.0.R1

eapol-destination-address *mac-address*

Context	**configure port** *port* **ethernet dot1x macsec sub-port** *number*
Description	Configure the eapol destination address.
Default	00:00:00:00:00:00
Introduced	16.0.R1

max-peers *number*

Context	**configure port** *port* **ethernet dot1x macsec sub-port** *number*
Description	Configure the max number of peers supported on this port.
Range	1 to 32
Introduced	16.0.R1

max-authentication-requests *number*

Context	**configure port** *port* **ethernet dot1x**
Description	Maximum number of times the router sends access request RADIUS message to RADIUS server
Range	1 to 10
Default	2
Introduced	16.0.R1

port-control *keyword*

Context	**configure port** *port* **ethernet dot1x**
Description	802.1x authentication mode
Default	force-authorized
Options	force-unauthorized, auto, force-authorized
Introduced	16.0.R1

quiet-period *number*

Context	**configure port** *port* **ethernet dot1x**
Description	Time between two authentication sessions during which no EAPOL frames are sent by router
Range	1 to 3600
Default	60
Units	seconds
Introduced	16.0.R1

radius-policy *string*

Context	**configure port** *port* **ethernet dot1x**
Description	Authentication server policy
Reference	configure **system security dot1x radius-policy** *string*
Introduced	16.0.R1

re-authentication

Context	**configure port** *port* **ethernet dot1x**
Description	Enter the re-authentication context
Introduced	16.0.R1

period *number*

Context	**configure port** *port* **ethernet dot1x re-authentication**
Description	Re-authentication period
Range	1 to 9000
Default	3600
Units	seconds
Introduced	16.0.R1

server-timeout *number*

Context	**configure port** *port* **ethernet dot1x**
Description	Time during which router waits for RADIUS server to respond to its access request message
Range	1 to 300
Default	30
Units	seconds
Introduced	16.0.R1

supplicant-timeout *number*

Context	**configure port** *port* **ethernet dot1x**
Description	Time during which router waits for a client to respond to its EAPOL messages
Range	1 to 300
Default	30
Units	seconds
Introduced	16.0.R1

transmit-period *number*

Context	**configure port** *port* **ethernet dot1x**
Description	Time after which router sends a new EAPOL request message
Range	1 to 3600
Default	30
Units	seconds
Introduced	16.0.R1

tunneling *boolean*

Context	**configure port** *port* **ethernet dot1x**
Description	Allow tunneling of untagged 802.1x frames received on a port
Default	false
Introduced	16.0.R1

down-on-internal-error

Context	**configure port** *port* **ethernet**
Description	Enter the down-on-internal-error context
Introduced	16.0.R1

tx-laser *keyword*

Context	**configure port** *port* **ethernet down-on-internal-error**
Description	Remote laser on internal errors
Default	on
Options	off, on
Introduced	16.0.R1

down-when-looped

Context	**configure port** *port* **ethernet**
Description	Enter the down-when-looped context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure port** *port* **ethernet down-when-looped**
Description	Administrative state of physical loop detection
Default	disable
Options	enable, disable
Introduced	16.0.R1

keep-alive *number*

Context	**configure port** *port* **ethernet down-when-looped**
Description	Time interval between keep-alive PDUs
Range	1 to 120
Default	10
Units	seconds
Introduced	16.0.R1

retry-timeout *number*

Context	**configure port** *port* **ethernet down-when-looped**
Description	Minimum time before re-enabling the port after loop detection
Range	0 | 10 to 160
Default	120
Units	seconds
Introduced	16.0.R1

use-broadcast-address *boolean*

Context	**configure port** *port* **ethernet down-when-looped**
Description	Broadcast MAC address for destination MAC address
Default	false
Introduced	16.0.R1

duplex *keyword*

Context	**configure port** *port* **ethernet**
Description	Duplex type for the Ethernet port
Options	full, half
Introduced	16.0.R1

efm-oam

Context	**configure port** *port* **ethernet**
Description	Enter the efm-oam context
Introduced	16.0.R1

accept-remote-loopback *boolean*

Context	**configure port** *port* **ethernet efm-oam**
Description	Enable reactions to loopback control OAM PDUs from peers
Default	false
Introduced	16.0.R1

admin-state *keyword*

Context	**configure port** *port* **ethernet efm-oam**
Description	Administrative state of EFM OAM operation
Default	disable
Options	enable, disable
Introduced	16.0.R1

discovery

Context	**configure port** *port* **ethernet efm-oam**
Description	Enter the discovery context
Introduced	16.0.R1

advertise-capabilities

Context	**configure port** *port* **ethernet efm-oam discovery**
Description	Enter the advertise-capabilities context
Introduced	16.0.R1

link-monitoring *boolean*

Context	**configure port** *port* **ethernet efm-oam discovery advertise-capabilities**
Description	Advertise link monitoring capabilities to peer
Default	true
Introduced	16.0.R1

dying-gasp-tx-on-reset *boolean*

Context	**configure port** *port* **ethernet efm-oam**
Description	Allow generation of Information OAM PDU when EFM application receives soft reset notification
Default	true
Introduced	16.0.R1

grace-tx *boolean*

Context	**configure port** *port* **ethernet efm-oam**
Description	Allow sending of EFM OAM grace period messages
Default	true
Introduced	16.0.R1

grace-vendor-oui *string*

Context	**configure port** *port* **ethernet efm-oam**
Description	EFM OAM grace vendor unique ID
Default	00:16:4D
Introduced	16.0.R1

hold-time *number*

Context	**configure port** *port* **ethernet efm-oam**
Description	Time EFM OAM protocol waits before returning to operational state after leaving operational state
Range	1 to 50
Units	seconds
Introduced	16.0.R1

ignore-efm-state *boolean*

Context	**configure port** *port* **ethernet efm-oam**
Description	Suppress port operational state changes due to any EFM OAM protocol fault condition
Default	false
Introduced	16.0.R1

link-monitoring

Context	**configure port** *port* **ethernet efm-oam**
Description	Enter the link-monitoring context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure port** *port* **ethernet efm-oam link-monitoring**
Description	Enable/disable link monitoring on the port.
Default	disable
Options	enable, disable
Introduced	16.0.R4

errored-frame

Context	**configure port** *port* **ethernet efm-oam link-monitoring**
Description	Enter the errored-frame context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame**
Description	Enable/disable link monitoring on the port.
Default	disable
Options	enable, disable
Introduced	16.0.R4

event-notification *boolean*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame**
Description	Configure if event notification OAMPDUs are transmitted with the TLVs.
Default	true
Introduced	16.0.R4

sd-threshold *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame**
Description	Configure the signal degrade threshold.
Range	1 to 1000000
Introduced	16.0.R4

sf-threshold *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame**
Description	Configure the signal failure threshold.
Range	1 to 1000000
Default	1
Introduced	16.0.R4

window *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame**
Description	Configure the window.
Range	10 to 600
Default	10
Units	deciseconds
Introduced	16.0.R4

errored-frame-period

Context	**configure port** *port* **ethernet efm-oam link-monitoring**
Description	Enter the errored-frame-period context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-period**
Description	Enable/disable link monitoring on the port.
Default	disable
Options	enable, disable
Introduced	16.0.R4

event-notification *boolean*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-period**
Description	Configure if event notification OAMPDUs are transmitted with the TLVs.
Default	true
Introduced	16.0.R4

sd-threshold *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-period**
Description	Configure the signal degrade threshold.
Range	1 to 1000000
Introduced	16.0.R4

sf-threshold *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-period**
Description	Configure the signal failure threshold.
Range	1 to 1000000
Default	1
Introduced	16.0.R4

window *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-period**
Description	Configure the window.
Range	1 to 4294967295
Default	1488095
Units	packets
Introduced	16.0.R4

errored-frame-seconds

Context	**configure port** *port* **ethernet efm-oam link-monitoring**
Description	Enter the errored-frame-seconds context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-seconds**
Description	Enable/disable link monitoring on the port.
Default	disable
Options	enable, disable
Introduced	16.0.R4

event-notification *boolean*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-seconds**
Description	Configure if event notification OAMPDUs are transmitted with the TLVs.
Default	true
Introduced	16.0.R4

sd-threshold *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-seconds**
Description	Configure the signal degrade threshold.
Range	1 to 900
Introduced	16.0.R4

sf-threshold *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-seconds**
Description	Configure the signal failure threshold.
Range	1 to 900
Default	1
Introduced	16.0.R4

window *number*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-frame-seconds**
Description	Configure the window.
Range	100 to 9000
Default	600
Units	deciseconds
Introduced	16.0.R4

errored-symbols

Context	**configure port** *port* **ethernet efm-oam link-monitoring**
Description	Enter the errored-symbols context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-symbols**
Description	Enable/disable link monitoring on the port.
Default	disable
Options	enable, disable
Introduced	16.0.R4

event-notification *boolean*

Context	**configure port** *port* **ethernet efm-oam link-monitoring errored-symbols**
Description	Configure if event notification OAMPDUs are transmitted with the TLVs.
Default	true
Introduced	16.0.R4

sd-threshold *number*

Context **configure port** *port* **ethernet efm-oam link-monitoring errored-symbols**

Description Configure the signal degrade threshold.

Range 1 to 1000000

Introduced 16.0.R4

sf-threshold *number*

Context **configure port** *port* **ethernet efm-oam link-monitoring errored-symbols**

Description Configure the signal failure threshold.

Range 1 to 1000000

Default 1

Introduced 16.0.R4

window *number*

Context **configure port** *port* **ethernet efm-oam link-monitoring errored-symbols**

Description Configure the window.

Range 10 to 600

Default 10

Units deciseconds

Introduced 16.0.R4

local-sf-action

Context **configure port** *port* **ethernet efm-oam link-monitoring**

Description Enter the local-sf-action context

Introduced 16.0.R4

event-notification-burst *number*

Context **configure port** *port* **ethernet efm-oam link-monitoring local-sf-action**

Description Configure the number of event notification OAMPDUs to burst.

Range 1 to 5

Default 1

Units packets

Introduced 16.0.R4

info-notification

Context **configure port** *port* **ethernet efm-oam link-monitoring local-sf-action**

Description Enter the info-notification context

Introduced 16.0.R4

critical-event *boolean*

Context **configure port** *port* **ethernet efm-oam link-monitoring local-sf-action info-notification**

Description Set/clear the Critical Event flag.

Default false

Introduced 16.0.R4

dying-gasp *boolean*

Context **configure port** *port* **ethernet efm-oam link-monitoring local-sf-action info-notification**

Description Set/clear the Dying Gasp flag.

Default false

Introduced 16.0.R4

local-port-action *keyword*

Context **configure port** *port* **ethernet efm-oam link-monitoring local-sf-action**

Description Configure the local port action.

Default port-out-of-service

Options log-only, port-out-of-service

Introduced 16.0.R4

mode *keyword*

Context **configure port** *port* **ethernet efm-oam**

Description EFM OAM DTE mode

Default active

Options passive, active

Introduced 16.0.R1

multiplier *number*

Context	**configure port** *port* **ethernet efm-oam**
Description	Multiplier of OAMPDUs
Range	2 to 5
Default	5
Introduced	16.0.R1

peer-rdi-rx

Context	**configure port** *port* **ethernet efm-oam**
Description	Enter the peer-rdi-rx context
Introduced	16.0.R1

critical-event *keyword*

Context	**configure port** *port* **ethernet efm-oam peer-rdi-rx**
Description	Action for local port when critical event is received from peer
Default	port-out-of-service
Options	log-only, port-out-of-service
Introduced	16.0.R1

dying-gasp *keyword*

Context	**configure port** *port* **ethernet efm-oam peer-rdi-rx**
Description	Action for local port when dying gasp is received from the peer
Default	port-out-of-service
Options	log-only, port-out-of-service
Introduced	16.0.R1

event-notification *keyword*

Context	**configure port** *port* **ethernet efm-oam peer-rdi-rx**
Description	Action for local port when event notification OAMPDU is received from peer
Default	log-only
Options	log-only, port-out-of-service
Introduced	16.0.R1

link-fault *keyword*

Context	**configure port** *port* **ethernet efm-oam peer-rdi-rx**
Description	Action for local port when link fault is received from peer
Default	port-out-of-service
Options	log-only, port-out-of-service
Introduced	16.0.R1

transmit-interval *number*

Context	**configure port** *port* **ethernet efm-oam**
Description	Transmit interval of OAMPDUs
Range	1 to 600
Default	10
Units	deciseconds
Introduced	16.0.R1

trigger-fault *keyword*

Context	**configure port** *port* **ethernet efm-oam**
Description	Flag field to be set in the Information OAM PDU
Options	dying-gasp, critical-event
Introduced	16.0.R1

tunneling *boolean*

Context	**configure port** *port* **ethernet efm-oam**
Description	Allow EFM OAM PDU tunneling
Default	false
Introduced	16.0.R1

egress

Context	**configure port** *port* **ethernet**
Description	Enter the egress context
Introduced	16.0.R1

eth-bn-rate-changes *boolean*

Context	**configure port** *port* **ethernet egress**
Description	Receive rate changes in Ethernet Bandwidth Notification (Eth-BN) messages to update egress rate
Default	false
Introduced	16.0.R1

expanded-secondary-shaper [secondary-shaper-name] *string*

Context	**configure port** *port* **ethernet egress**
Description	Enter the expanded-secondary-shaper context
Introduced	16.0.R1

[secondary-shaper-name] *string*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string*
Description	Name for the expanded secondary shaper
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

aggregate-burst

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string*
Description	Enter the aggregate-burst context
Introduced	16.0.R1

high-burst-increase *number*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string* **aggregate-burst**
Description	High burst increase
Range	0 to 65528
Units	bytes
Introduced	16.0.R1

low-burst-limit *number*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string* **aggregate-burst**
Description	Low burst limit
Range	1 to 327680
Units	bytes
Introduced	16.0.R1

class [class-number] *number*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string*
Description	Enter the class context
Introduced	16.0.R1

[class-number] *number*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string* **class** *number*
Description	Unique value of the class
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

burst-limit *number*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string* **class** *number*
Description	Class identifier of the low burst maximum class
Range	1 to 327680
Units	bytes
Introduced	16.0.R1

monitor-threshold *number*

Context	**configure port** *port* **ethernet egress expanded-secondary-shaper** *string* **class** *number*
Description	Monitoring threshold for non-conformance burst of the class
Range	0 to 8190
Introduced	16.0.R1

rate (*kilobytes* | *keyword*)

Context **configure port** *port* **ethernet egress expanded-secondary-shaper** *string* **class** *number*
Description Class rate
Default max
Introduced 16.0.R1

low-burst-max-class *number*

Context **configure port** *port* **ethernet egress expanded-secondary-shaper** *string*
Description Class to associate with the Ethernet egress expanded secondary shaper
Range 1 to 8
Default 8
Introduced 16.0.R1

monitor-threshold *number*

Context **configure port** *port* **ethernet egress expanded-secondary-shaper** *string*
Description Monitoring threshold for non-conformance burst
Range 0 to 8190
Introduced 16.0.R1

rate (*kilobytes* | *keyword*)

Context **configure port** *port* **ethernet egress expanded-secondary-shaper** *string*
Description Rate of the expanded secondary shaper
Default max
Introduced 16.0.R1

hs-port-pool-policy *string*

Context **configure port** *port* **ethernet egress**
Description HS port pool policy
Reference configure **qos hs-port-pool-policy** *string*
Introduced 16.0.R1

hs-scheduler-policy

Context **configure port** *port* **ethernet egress**

Description Enter the hs-scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure port** *port* **ethernet egress hs-scheduler-policy**

Description HS port pool policy

Reference configure **qos hs-scheduler-policy** *string*

Introduced 16.0.R1

hsmda-scheduler-policy *string*

Context **configure port** *port* **ethernet egress**

Description HSMDA scheduler policy

Reference configure **qos hsmda-scheduler-policy** *string*

Introduced 16.0.R1

monitor-port-scheduler *boolean*

Context **configure port** *port* **ethernet egress**

Description Enable/disable monitoring of egress scheduler on the Ethernet port.

Default false

Introduced 16.0.R1

port-scheduler-policy

Context **configure port** *port* **ethernet egress**

Description Enter the port-scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure port** *port* **ethernet egress port-scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R4

level [priority-level] *number*

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides**
Description	Enter the level context
Introduced	16.0.R4

[priority-level] *number*

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number*
Description	Specifies the priority level of the port scheduler override.
Range	1 to 8
Introduced	16.0.R4
Notes	This element is part of a list key

percent-rate

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number*
Description	Enter the **percent-rate** context
Introduced	16.0.R4

cir *decimal-number*

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number* **percent-rate**
Description	Configure Che CIR rate as a percent.
Range	0.00 to 100.00
Units	percent
Introduced	16.0.R4
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number* **percent-rate**
Description	Configure the PIR rate as a percent.
Range	0.01 to 100.00
Units	percent
Introduced	16.0.R4
Notes	This element is part of a choice

rate

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number*
Description	Enter the **rate** context
Introduced	16.0.R4

cir (*number* | *keyword*)

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number* **rate**
Description	Configure the CIR rate in kbps.
Units	kilobps
Introduced	16.0.R4
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides level** *number* **rate**
Description	Configure the PIR rate in kbps.
Units	kilobps
Introduced	16.0.R4
Notes	This element is part of a choice

max-rate

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides**
Description	Enter the max-rate context
Introduced	16.0.R4

percent-rate *decimal-number*

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides max-rate**
Description	Configure the PIR rate as a percent.
Range	0.01 to 100
Default	100
Units	percent
Introduced	16.0.R4
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure port** *port* **ethernet egress port-scheduler-policy overrides max-rate**
Description	Configure the PIR rate as a rate.
Default	max
Units	kilobps
Introduced	16.0.R4
Notes	This element is part of a choice

policy-name *string*

Context	**configure port** *port* **ethernet egress port-scheduler-policy**
Description	Configure an egress scheduler policy.
Reference	configure **qos port-scheduler-policy** *string*
Introduced	16.0.R1

rate *number*

Context	**configure port** *port* **ethernet egress**
Description	Maximum egress bandwidth that this Ethernet port can receive
Range	1 to 400000000
Units	kilobps
Introduced	16.0.R1

elmi

Context	**configure port** *port* **ethernet**
Description	Enter the elmi context
Introduced	16.0.R4

mode *keyword*

Context	**configure port** *port* **ethernet elmi**
Description	Configure the Ethernet LMI Mode.
Options	uni-n
Introduced	16.0.R4

n393 *number*

Context	**configure port** *port* **ethernet elmi**
Description	Configure the monitored count of consecutive errors.
Range	2 to 10
Default	4
Introduced	16.0.R4

t391 *number*

Context	**configure port** *port* **ethernet elmi**
Description	Configure Polling Timer for UNI-C.
Range	5 to 30
Default	10
Units	seconds
Introduced	16.0.R4

t392 *number*

Context	**configure port** *port* **ethernet elmi**
Description	Configure the polling verification timer for UNI-N.
Range	5 to 30
Default	15
Units	seconds
Introduced	16.0.R4

encap-type *keyword*

Context	**configure port** *port* **ethernet**
Description	Encapsulation method for the Ethernet port
Options	null, dot1q, qinq
Introduced	16.0.R1

eth-cfm

Context	**configure port** *port* **ethernet**
Description	Enter the eth-cfm context
Introduced	16.0.R1

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure port** *port* **ethernet eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the ais context
Introduced	16.0.R1

client-meg-level *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Client MEG level for AIS message generation
Range	1 to 7
Max. Elements	7
Introduced	16.0.R1

interface-support *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Allow generation of AIS PDUs based on the associated endpoint state
Default	false
Introduced	16.0.R1

interval *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Transmission interval for AIS messages
Range	1 | 60
Default	1
Units	seconds
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

csf

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the csf context
Introduced	16.0.R1

multiplier *decimal-number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-bn

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-bn context
Introduced	16.0.R1

receive *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-bn**
Description	Accept and process ETH-BN messages
Default	false
Introduced	16.0.R1

rx-update-pacing *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-bn**
Description	Pacing of update messages to QoS
Range	1 to 600
Default	5
Introduced	16.0.R1

eth-test

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-test context
Introduced	16.0.R1

bit-error-threshold *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Lowest priority defect threshold for the bit error trap to generate a fault alarm
Range	0 to 11840
Default	1
Units	bit errors
Introduced	16.0.R1

test-pattern

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Enter the test-pattern context
Introduced	16.0.R1

crc-tlv *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**
Description	Generate a CRC checksum
Default	false
Introduced	16.0.R1

pattern *keyword*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**
Description	Test pattern for eth-test frames
Default	all-zeros
Options	all-zeros, all-ones
Introduced	16.0.R1

facility-fault *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Allow the facility MEP to move from alarming only to network actionable function
Default	false
Introduced	16.0.R1

grace

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the grace context
Introduced	16.0.R1

eth-ed

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**
Description	Enter the eth-ed context
Introduced	16.0.R1

max-rx-defect-window *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Transmission priority for ETH-ED PDUs
Range	0 to 7
Introduced	16.0.R1

rx-eth-ed *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Receive and process ETH-ED PDUs
Default	true
Introduced	16.0.R1

tx-eth-ed *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Transmit ETH-ED PDUs
Default	false
Introduced	16.0.R1

eth-vsm-grace

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**
Description	Enter the eth-vsm-grace context
Introduced	16.0.R1

rx-eth-vsm-grace *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP
Default	true
Introduced	16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

mac-address *mac-unicast-address*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

vlan (*number* | *keyword*)



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure port** *port* **ethernet eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique VLAN ID for a specific VLAN
Default	none
Introduced	16.0.R1

hold-time

Context	**configure port** *port* **ethernet**
Description	Enter the hold-time context
Introduced	16.0.R1

down *number*

Context	**configure port** *port* **ethernet hold-time**
Description	Hold time for link-down event dampening
Range	1 to 3600000
Introduced	16.0.R1

units *keyword*

Context	**configure port** *port* **ethernet hold-time**
Description	Units of hold timers
Default	seconds
Options	seconds, centiseconds
Introduced	16.0.R1

up *number*

Context	**configure port** *port* **ethernet hold-time**
Description	Hold time for link-down event dampening
Range	1 to 3600000
Introduced	16.0.R1

hsmda-scheduler-overrides

Context	**configure port** *port* **ethernet**
Description	Enter the hsmda-scheduler-overrides context
Introduced	16.0.R1

group [group-id] *number*

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides**
Description	Enter the group context
Introduced	16.0.R1

[group-id] *number*

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides group** *number*
Description	Group ID
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

rate (*number* | *keyword*)

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides group** *number*
Description	Ingress and egress HSMDA scheduler override
Units	megabps
Introduced	16.0.R1

max-rate (*number* | *keyword*)

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides**
Description	Maximum rate to override the QoS scheduler policy
Units	megabps
Introduced	16.0.R1

scheduling-class [class-number] *number*

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides**
Description	Enter the scheduling-class context
Introduced	16.0.R1

[class-number] *number*

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides scheduling-class** *number*
Description	Unique value of the class
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

rate (*number* | *keyword*)

Context	**configure port** *port* **ethernet hsmda-scheduler-overrides scheduling-class** *number*
Description	Maximum bandwidth limit for this HSMDA scheduler policy
Units	megabps
Introduced	16.0.R1

weight-in-group *number*

Context **configure port** *port* **ethernet hsmda-scheduler-overrides scheduling-class** *number*

Description Weight that the HSMDA scheduler policy applies to this policy

Range 1 to 100

Introduced 16.0.R1

ingress

Context **configure port** *port* **ethernet**

Description Enter the ingress context

Introduced 16.0.R1

rate *number*

Context **configure port** *port* **ethernet ingress**

Description Maximum ingress bandwidth that this Ethernet port can receive

Range 1 to 400000

Units megabps

Introduced 16.0.R1

lacp-tunnel *boolean*

Context **configure port** *port* **ethernet**

Description Allow LACP packet tunneling for the Ethernet port

Default false

Introduced 16.0.R1

lldp

Context **configure port** *port* **ethernet**

Description Enter the lldp context

Introduced 16.0.R1

dest-mac [mac-type] *keyword*

Context	**configure port** *port* **ethernet lldp**
Description	Enter the dest-mac context
Introduced	16.0.R1

[mac-type] *keyword*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	MAC address type unique ID
Options	nearest-bridge, nearest-non-tpmr, nearest-customer
Introduced	16.0.R1
Notes	This element is part of a list key

notification *boolean*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	Allow LLDP notifications
Default	false
Introduced	16.0.R1

port-id-subtype *keyword*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	Port identifier TLVs transmitted to peer which is encoded
Default	tx-local
Options	tx-if-alias, tx-if-name, tx-local
Introduced	16.0.R1

receive *boolean*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	Enable LLDP received frame handling
Default	false
Introduced	16.0.R1

transmit *boolean*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	Enable LLDP received frame handling
Default	false
Introduced	16.0.R1

tunnel-nearest-bridge *boolean*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	Allow LLDP packets received on port with destination address of nearest bridge to be tunneled
Default	false
Introduced	16.0.R1

tx-mgmt-address [mgmt-address-system-type] *keyword*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword*
Description	Enter the tx-mgmt-address context
Introduced	16.0.R1

[mgmt-address-system-type] *keyword*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword* **tx-mgmt-address** *keyword*
Description	Management address to transmit
Options	oob, system, system-ipv6, oob-ipv6
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure port** *port* **ethernet lldp dest-mac** *keyword* **tx-mgmt-address** *keyword*
Description	Administrative state of transmitting management address information
Default	disable
Options	enable, disable
Introduced	16.0.R1

tx-tlvs

Context **configure port** *port* **ethernet lldp dest-mac** *keyword*

Description Enter the tx-tlvs context

Introduced 16.0.R1

port-desc *boolean*

Context **configure port** *port* **ethernet lldp dest-mac** *keyword* **tx-tlvs**

Description Transmit port description TLVs

Default false

Introduced 16.0.R1

sys-cap *boolean*

Context **configure port** *port* **ethernet lldp dest-mac** *keyword* **tx-tlvs**

Description Transmit system capabilities TLVs

Default false

Introduced 16.0.R1

sys-desc *boolean*

Context **configure port** *port* **ethernet lldp dest-mac** *keyword* **tx-tlvs**

Description Transmit system description TLVs

Default false

Introduced 16.0.R1

sys-name *boolean*

Context **configure port** *port* **ethernet lldp dest-mac** *keyword* **tx-tlvs**

Description Transmit system name TLVs

Default false

Introduced 16.0.R1

load-balancing-algorithm *keyword*

Context	**configure port** *port* **ethernet**
Description	Load balancing algorithm for the Ethernet port
Options	default, include-l4, exclude-l4
Introduced	16.0.R1

mac-address *mac-address*

Context	**configure port** *port* **ethernet**
Description	MAC address for the Ethernet port
Default	00:00:00:00:00:00
Introduced	16.0.R1

min-frame-length *number*

Context	**configure port** *port* **ethernet**
Description	Minimum transmitted frame length for the Ethernet port
Range	64 | 68
Default	64
Units	bytes
Introduced	16.0.R1

mode *keyword*

Context	**configure port** *port* **ethernet**
Description	Mode for the Ethernet port
Options	access, network, hybrid
Introduced	16.0.R1

mtu *number*

Context	**configure port** *port* **ethernet**
Description	Maximum payload MTU size for the Ethernet port
Range	512 to 9212
Units	bytes
Introduced	16.0.R1

network

Context **configure port** *port* **ethernet**

Description Enter the network context

Introduced 16.0.R1

accounting-policy *string*

Context **configure port** *port* **ethernet network**

Description Accounting policy that applies to the Ethernet network port

Reference configure **log accounting-policy** *number*

Introduced 16.0.R1

collect-stats *boolean*

Context **configure port** *port* **ethernet network**

Description Collect statistical data on the Ethernet port

Default false

Introduced 16.0.R1

egress

Context **configure port** *port* **ethernet network**

Description Enter the egress context

Introduced 16.0.R1

queue-group [queue-group-name] *string* instance-id *number*

Context **configure port** *port* **ethernet network egress**

Description Enter the queue-group context

Introduced 16.0.R1

[queue-group-name] *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Queue group name
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

instance-id *number*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Instance ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Accounting policy for the Ethernet port egress queue group
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

aggregate-rate

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Enter the aggregate-rate context
Introduced	16.0.R1

limit-unused-bandwidth *boolean*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **aggregate-rate**
Description	Specify whether to enable limit unused bandwidth.
Default	false
Introduced	16.0.R4

queue-frame-based-accounting *boolean*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **aggregate-rate**
Description	Enable frame-based accounting on all policers and queues associated with context
Default	false
Introduced	16.0.R1

rate (*number* | *keyword*)

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **aggregate-rate**
Description	Specify aggregate rate limit.
Range	1 to 3200000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R4

collect-stats *boolean*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Collect statistics on this queue group
Default	false
Introduced	16.0.R1

description *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

hs-turbo *boolean*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Allow corresponding HSQ queue group queues to achieve a higher throughput
Default	false
Introduced	16.0.R1

policer-control-policy *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Policer control policy for the QoS egress queue group
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

queue-overrides

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Enter the queue-overrides context
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides**
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*
Description	HSMDA queue overrides queue ID
Reference	configure **qos queue-group-templates egress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description CBS rate

Introduced 16.0.R1

drop-tail

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description MBS rate

Units bytes

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enable queue depth monitoring

Default false

Introduced 16.0.R1

percent-rate

Context **configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Units	percent
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Units	percent
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **rate**
Description	CIR rate
Units	kilobps
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number* **queue-overrides queue** *string* **rate**
Description	PIR rate
Units	kilobps
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-policy *string*

Context	**configure port** *port* **ethernet network egress queue-group** *string* **instance-id** *number*
Description	Scheduler policy for the QoS egress queue group
Reference	configure **qos scheduler-policy** *string*
Introduced	16.0.R1

queue-policy *string*

Context	**configure port** *port* **ethernet network egress**
Description	Configure the queue policy on the Ethernet network port.
Reference	configure **qos network-queue** *string*
Introduced	16.0.R1

pbb-etype *etype*

Context	**configure port** *port* **ethernet**
Description	Ethertype for PBB encapsulation on the Ethernet port
Default	35047
Introduced	16.0.R1

ptp-asymmetry *number*

Context	**configure port** *port* **ethernet**
Description	PTP asymmetry delay delta of the Ethernet port
Units	nanoseconds
Introduced	16.0.R1

qinq-etype *etype*

Context	**configure port** *port* **ethernet**
Description	Ethertype for QinQ encapsulation on the Ethernet port
Default	33024
Introduced	16.0.R1

report-alarm

Context	**configure port** *port* **ethernet**
Description	Enter the report-alarm context
Introduced	16.0.R1

alignment-marker-not-locked *boolean*

Context	**configure port** *port* **ethernet report-alarm**
Description	Enable/disable alignment-marker-not-locked alarm.
Introduced	16.0.R3

block-not-locked *boolean*

Context	**configure port** *port* **ethernet report-alarm**
Description	Enable/disable block-not-locked alarm.
Introduced	16.0.R3

duplicate-lane *boolean*

Context	**configure port** *port* **ethernet report-alarm**
Description	Report PCS Duplicate Lane Marker alarm
Introduced	16.0.R1

frame-not-locked *boolean*

Context	**configure port** *port* **ethernet report-alarm**
Description	Enable/disable frame-not-locked alarm.
Introduced	16.0.R3

high-ber *boolean*

Context **configure port** *port* **ethernet report-alarm**

Description Report High Bit Error Rate alarm

Introduced 16.0.R1

local *boolean*

Context **configure port** *port* **ethernet report-alarm**

Description Report local faults

Introduced 16.0.R1

remote *boolean*

Context **configure port** *port* **ethernet report-alarm**

Description Report remote faults

Introduced 16.0.R1

signal-fail *boolean*

Context **configure port** *port* **ethernet report-alarm**

Description Report an Ethernet signal lost alarm

Introduced 16.0.R1

rs-fec-mode *keyword*

Context **configure port** *port* **ethernet**

Description RS-FEC mode on the Ethernet port

Options cl91-514-528, cl74, cl108

Introduced 16.0.R1

single-fiber *boolean*

Context **configure port** *port* **ethernet**

Description Allow packet redirection of IP packets from single fiber on the Ethernet port

Default false

Introduced 16.0.R1

speed *number*

Context	**configure port** *port* **ethernet**
Description	Speed of the Ethernet port
Range	10 | 100 | 1000 | 10000 | 25000 | 40000 | 50000 | 100000
Units	megabps
Introduced	16.0.R1

ssm

Context	**configure port** *port* **ethernet**
Description	Enter the ssm context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure port** *port* **ethernet ssm**
Description	Administrative state of SSM
Default	disable
Options	enable, disable
Introduced	16.0.R1

code-type *keyword*

Context	**configure port** *port* **ethernet ssm**
Description	SSM channel to use either sonet or SDH
Default	sdh
Options	sonet, sdh
Introduced	16.0.R1

tx-dus *boolean*

Context	**configure port** *port* **ethernet ssm**
Description	Transmit value of QL-DUS/QL-DNU in SSM messaging channel
Default	false
Introduced	16.0.R1

symbol-monitor

Context	**configure port** *port* **ethernet**
Description	Enter the symbol-monitor context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure port** *port* **ethernet symbol-monitor**
Description	Administrative state of symbol monitoring on the port
Default	disable
Options	enable, disable
Introduced	16.0.R1

signal-degrade

Context	**configure port** *port* **ethernet symbol-monitor**
Description	Enter the signal-degrade context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **ethernet symbol-monitor signal-degrade**
Description	SD multiplier
Range	1 to 9
Default	1
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **ethernet symbol-monitor signal-degrade**
Description	SD threshold
Range	1 to 9
Introduced	16.0.R1

signal-failure

Context	**configure port** *port* **ethernet symbol-monitor**
Description	Enter the signal-failure context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **ethernet symbol-monitor signal-failure**
Description	SF multiplier
Range	1 to 9
Default	1
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **ethernet symbol-monitor signal-failure**
Description	SF threshold
Range	1 to 9
Introduced	16.0.R1

window-size *number*

Context	**configure port** *port* **ethernet symbol-monitor**
Description	Window size of the monitor
Range	5 to 60
Default	10
Units	seconds
Introduced	16.0.R1

util-stats-interval *number*

Context	**configure port** *port* **ethernet**
Description	Interval to calculate the utilization statistics of the Ethernet port
Range	30 to 600
Default	300
Units	seconds
Introduced	16.0.R1

xgig *keyword*

Context	**configure port** *port* **ethernet**
Description	LAN or WAN mode for the Ethernet port
Options	lan, wan
Introduced	16.0.R1

hybrid-buffer-allocation

Context	**configure port** *port*
Description	Enter the hybrid-buffer-allocation context
Introduced	16.0.R1

egress-weight

Context	**configure port** *port* **hybrid-buffer-allocation**
Description	Enter the egress-weight context
Introduced	16.0.R1

access *number*

Context	**configure port** *port* **hybrid-buffer-allocation egress-weight**
Description	Access weight for hybrid port
Range	0 to 100
Default	50
Introduced	16.0.R1

network *number*

Context	**configure port** *port* **hybrid-buffer-allocation egress-weight**
Description	Access weight for hybrid port
Range	0 to 100
Default	50
Introduced	16.0.R1

ingress-weight

Context **configure port** *port* **hybrid-buffer-allocation**

Description Enter the ingress-weight context

Introduced 16.0.R1

access *number*

Context **configure port** *port* **hybrid-buffer-allocation ingress-weight**

Description Access weight for hybrid port

Range 0 to 100

Default 50

Introduced 16.0.R1

network *number*

Context **configure port** *port* **hybrid-buffer-allocation ingress-weight**

Description Access weight for hybrid port

Range 0 to 100

Default 50

Introduced 16.0.R1

modify-buffer-allocation

Context **configure port** *port*

Description Enter the modify-buffer-allocation context

Introduced 16.0.R1

percentage-of-rate

Context **configure port** *port* **modify-buffer-allocation**

Description Enter the percentage-of-rate context

Introduced 16.0.R1

egress *number*

Context	**configure port** *port* **modify-buffer-allocation percentage-of-rate**
Description	Egress rate percentage
Range	1 to 1000
Default	100
Introduced	16.0.R1

ingress *number*

Context	**configure port** *port* **modify-buffer-allocation percentage-of-rate**
Description	Ingress rate percentage
Range	1 to 1000
Default	100
Introduced	16.0.R1

monitor-agg-egress-queue-stats *boolean*

Context	**configure port** *port*
Description	Monitor aggregate queue statistics
Default	false
Introduced	16.0.R1

named-pool-mode

Context	**configure port** *port*
Description	Enter the named-pool-mode context
Introduced	16.0.R4

egress

Context	**configure port** *port* **named-pool-mode**
Description	Enter the egress context
Introduced	16.0.R4

named-pool-policy *string*

Context **configure port** *port* **named-pool-mode egress**

Description Configure the named pool policy.

Reference configure **qos named-pool-policy** *string*

Introduced 16.0.R4

ingress

Context **configure port** *port* **named-pool-mode**

Description Enter the ingress context

Introduced 16.0.R4

named-pool-policy *string*

Context **configure port** *port* **named-pool-mode ingress**

Description Configure the named pool policy.

Reference configure **qos named-pool-policy** *string*

Introduced 16.0.R4

network

Context **configure port** *port*

Description Enter the network context

Introduced 16.0.R1

egress

Context **configure port** *port* **network**

Description Enter the egress context

Introduced 16.0.R1

pool [name] *string*

Context **configure port** *port* **network egress**

Description Enter the pool context

Introduced 16.0.R1

[name] *string*

Context	**configure port** *port* **network egress pool** *string*
Description	Unique name of pool for access port
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure port** *port* **network egress pool** *string*
Description	Threshold for amber alarm on oversubscription
Range	1 to 1000
Units	percent
Introduced	16.0.R1

red-alarm-threshold *number*

Context	**configure port** *port* **network egress pool** *string*
Description	Threshold for red alarm on oversubscription
Range	1 to 1000
Units	percent
Introduced	16.0.R1

resv-cbs

Context	**configure port** *port* **network egress pool** *string*
Description	Enter the resv-cbs context
Introduced	16.0.R1

amber-alarm-action

Context	**configure port** *port* **network egress pool** *string* **resv-cbs**
Description	Enter the amber-alarm-action context
Introduced	16.0.R1

max *number*

Context **configure port** *port* **network egress pool** *string* **resv-cbs amber-alarm-action**
Description Maximum percentage for reserved CBS of pool
Range 1 to 100
Units percent
Introduced 16.0.R1

step *number*

Context **configure port** *port* **network egress pool** *string* **resv-cbs amber-alarm-action**
Description Step-size percentage for reserved CBS of pool
Range 1 to 100
Units percent
Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure port** *port* **network egress pool** *string* **resv-cbs**
Description Percentage of pool size reserved for CBS
Range 0 to 100
Default auto
Units percent
Options auto
Introduced 16.0.R1

slope-policy *string*

Context **configure port** *port* **network egress pool** *string*
Description Slope policy for high and low priority RED slope parameters and time average factor
Reference configure **qos slope-policy** *string*
Introduced 16.0.R1

otu

Context **configure port** *port*
Description Enter the otu context
Introduced 16.0.R1

async-mapping *boolean*

Context	**configure port** *port* **otu**
Description	Allow asynchoronous mapping of the payload inside the OTU
Introduced	16.0.R1

fec *keyword*

Context	**configure port** *port* **otu**
Description	Forwarding Error Correction (FEC) encapsulation on the port
Options	none, g709, enhanced
Introduced	16.0.R1

fine-granularity-ber

Context	**configure port** *port* **otu**
Description	Enter the fine-granularity-ber context
Introduced	16.0.R1

signal-degrade

Context	**configure port** *port* **otu fine-granularity-ber**
Description	Enter the signal-degrade context
Introduced	16.0.R1

clear

Context	**configure port** *port* **otu fine-granularity-ber signal-degrade**
Description	Enter the clear context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-degrade clear**
Description	Multiplier of the SD clear threshold
Range	10 to 99
Default	10
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-degrade clear**
Description	SD clear threshold
Range	3 to 10
Default	8
Introduced	16.0.R1

raise

Context	**configure port** *port* **otu fine-granularity-ber signal-degrade**
Description	Enter the raise context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-degrade raise**
Description	Multiplier of the SD raise threshold
Range	10 to 99
Default	10
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-degrade raise**
Description	SD raise threshold
Range	3 to 9
Default	7
Introduced	16.0.R1

signal-failure

Context	**configure port** *port* **otu fine-granularity-ber**
Description	Enter the signal-failure context
Introduced	16.0.R1

clear

Context	**configure port** *port* **otu fine-granularity-ber signal-failure**
Description	Enter the clear context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-failure clear**
Description	Threshold for the Multiplier of SD clear
Range	10 to 99
Default	10
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-failure clear**
Description	Threshold for the Multiplier of SD clear
Range	3 to 9
Default	6
Introduced	16.0.R1

raise

Context	**configure port** *port* **otu fine-granularity-ber signal-failure**
Description	Enter the raise context
Introduced	16.0.R1

multiplier *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-failure raise**
Description	SF raise threshold
Range	10 to 99
Default	10
Introduced	16.0.R1

threshold *number*

Context	**configure port** *port* **otu fine-granularity-ber signal-failure raise**
Description	SF raise threshold
Range	3 to 8
Default	5
Introduced	16.0.R1

otu2-lan-data-rate *keyword*

Context	**configure port** *port* **otu**
Description	Data rate for 10GE LAN OTU2 on the port
Units	gigabps
Options	11.049, 11.096
Introduced	16.0.R1

path-monitoring

Context	**configure port** *port* **otu**
Description	Enter the path-monitoring context
Introduced	16.0.R4

trail-trace-identifier

Context	**configure port** *port* **otu path-monitoring**
Description	Enter the trail-trace-identifier context
Introduced	16.0.R4

expected

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier**
Description	Enter the expected context
Introduced	16.0.R4

auto-generated

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier expected**
Description	Auto-generate the TTI by the system.
Introduced	16.0.R1
Notes	This element is part of a choice

bytes *string*

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier expected**
Description	Configure the TTI as a sequence of bytes.
String Length	0 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier expected**
Description	Configure the TTI as a sequence of printable ASCII.
String Length	0 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

mismatch-reaction *keyword*

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier**
Description	Configure the reaction to a mismatched TTI.
Options	squelch-rx
Introduced	16.0.R4

transmit

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier**
Description	Enter the transmit context
Introduced	16.0.R4

auto-generated

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier transmit**
Description	Auto-generate the TTI by the system.
Introduced	16.0.R1
Notes	This element is part of a choice

bytes *string*

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier transmit**
Description	Configure the TTI as a sequence of bytes.
String Length	0 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure port** *port* **otu path-monitoring trail-trace-identifier transmit**
Description	Configure the TTI as a sequence of printable ASCII.
String Length	0 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

payload-structure-identifier

Context	**configure port** *port* **otu**
Description	Enter the payload-structure-identifier context
Introduced	16.0.R4

payload

Context	**configure port** *port* **otu payload-structure-identifier**
Description	Enter the payload context
Introduced	16.0.R4

expected *keyword*

Context	**configure port** *port* **otu payload-structure-identifier payload**
Description	Configure the port's PSI payload expected parameters.
Default	auto
Options	auto, experimental, asynchronous-cbr, bit-synchronous-cbr, atm, gfp, vcat, gmp, bit-stream-octet, bit-stream-non-octet, odu-mux, reserved-80, reserved-81, reserved-82, reserved-83, reserved-84, reserved-85, reserved-86, reserved-87, reserved-88, reserved-89, reserved-8a, reserved-8b, reserved-8c, reserved-8d, reserved-8e, reserved-8f, null-test, prbs-test
Introduced	16.0.R4

mismatch-reaction *keyword*

Context	**configure port** *port* **otu payload-structure-identifier payload**
Description	Configure the reaction to a mismatched payload.
Options	squelch-rx
Introduced	16.0.R4

transmit *keyword*

Context	**configure port** *port* **otu payload-structure-identifier payload**
Description	Configure the port's PSI payload transmit parameters.
Default	auto
Options	auto, experimental, asynchronous-cbr, bit-synchronous-cbr, atm, gfp, vcat, gmp, bit-stream-octet, bit-stream-non-octet, odu-mux, reserved-80, reserved-81, reserved-82, reserved-83, reserved-84, reserved-85, reserved-86, reserved-87, reserved-88, reserved-89, reserved-8a, reserved-8b, reserved-8c, reserved-8d, reserved-8e, reserved-8f, null-test, prbs-test
Introduced	16.0.R4

report-alarm

Context	**configure port** *port* **otu**
Description	Enter the report-alarm context
Introduced	16.0.R1

fec-fail *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report FEC mode mismatch alarm
Default	false
Introduced	16.0.R1

fec-sd *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report Signal Degrade alarm
Default	false
Introduced	16.0.R1

fec-sf *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report Signal Fail alarm
Default	true
Introduced	16.0.R1

fec-uncorr *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report one or more Uncorrectable FEC errors alarm
Default	false
Introduced	16.0.R1

loc *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report alarm for a loss of clock that causes the port to shut down
Default	true
Introduced	16.0.R1

lof *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report alarm for the loss of OTU framing
Default	true
Introduced	16.0.R1

lom *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report alarm for the loss of multi-frame
Default	true
Introduced	16.0.R1

los *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report alarm for the loss of signal transitions on data
Default	true
Introduced	16.0.R1

odu-ais *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report ODU Alarm Indication Signal alarm
Default	false
Introduced	16.0.R1

odu-bdi *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report PM Backward Defect Indication alarm
Default	false
Introduced	16.0.R1

odu-lck *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report ODU Locked alarm
Default	false
Introduced	16.0.R1

odu-oci *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report ODU Open Connection Indication alarm
Default	false
Introduced	16.0.R1

odu-tim *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report PM Trace ID Mismatch alarm
Default	false
Introduced	16.0.R1

opu-plm *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report PSI Payload Type Mismatch alarm
Default	false
Introduced	16.0.R1

otu-ais *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report OTU Alarm Indication Signal alarm
Default	false
Introduced	16.0.R1

otu-bdi *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report SM Backward Defect Indication alarm
Default	true
Introduced	16.0.R1

otu-ber-sd *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report SM Signal Degrade alarm
Default	false
Introduced	16.0.R1

otu-ber-sf *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report SM Signal Fail alarm
Default	true
Introduced	16.0.R1

otu-biae *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report SM Backward Incoming Alignment Error alarm
Default	false
Introduced	16.0.R1

otu-iae *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report SM Incoming Alignment Error alarm
Default	false
Introduced	16.0.R1

otu-tim *boolean*

Context	**configure port** *port* **otu report-alarm**
Description	Report SM Trace ID Mismatch alarm
Default	false
Introduced	16.0.R1

sd-threshold *number*

Context	**configure port** *port* **otu**
Description	Error rate at which to declare the signal fail condition for the signal degrade (SD)
Range	5 to 9
Default	7
Introduced	16.0.R1

section-monitoring

Context	**configure port** *port* **otu**
Description	Enter the section-monitoring context
Introduced	16.0.R4

trail-trace-identifier

Context	**configure port** *port* **otu section-monitoring**
Description	Enter the trail-trace-identifier context
Introduced	16.0.R4

expected

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier**
Description	Enter the expected context
Introduced	16.0.R4

auto-generated

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier expected**
Description	Auto-generate the TTI by the system.
Introduced	16.0.R1
Notes	This element is part of a choice

bytes *string*

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier expected**
Description	Configure the TTI as a sequence of bytes.
String Length	0 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier expected**
Description	Configure the TTI as a sequence of printable ASCII.
String Length	0 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

mismatch-reaction *keyword*

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier**
Description	Configure the reaction to a mismatched TTI.
Options	squelch-rx
Introduced	16.0.R4

transmit

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier**
Description	Enter the transmit context
Introduced	16.0.R4

auto-generated

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier transmit**
Description	Auto-generate the TTI by the system.
Introduced	16.0.R1
Notes	This element is part of a choice

bytes *string*

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier transmit**
Description	Configure the TTI as a sequence of bytes.
String Length	0 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure port** *port* **otu section-monitoring trail-trace-identifier transmit**
Description	Configure the TTI as a sequence of printable ASCII.
String Length	0 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

sf-sd-method *keyword*

Context	**configure port** *port* **otu**
Description	Method used to determine the signal fail and signal degrade alarms
Default	fec
Options	fec, bip8
Introduced	16.0.R1

sf-threshold *number*

Context	**configure port** *port* **otu**
Description	Error rate at which to declare the signal fail condition for the signal fail (SF)
Range	3 to 6
Default	5
Introduced	16.0.R1

sonet-sdh

Context	**configure port** *port*
Description	Enter the sonet-sdh context
Introduced	16.0.R1

clock-source *keyword*

Context	**configure port** *port* **sonet-sdh**
Description	Configure the clock for transmitted data.
Options	loop-timed, node-timed
Introduced	16.0.R4

framing *keyword*

Context	**configure port** *port* **sonet-sdh**
Description	SONET or SDH framing
Default	sonet
Options	sonet, sdh
Introduced	16.0.R1

hold-time

Context	**configure port** *port* **sonet-sdh**
Description	Enter the hold-time context
Introduced	16.0.R4

down *number*

Context	**configure port** *port* **sonet-sdh hold-time**
Description	Configure the hold timer for link down event dampening.
Range	1 to 100
Units	deciseconds
Introduced	16.0.R4

up *number*

Context	**configure port** *port* **sonet-sdh hold-time**
Description	Configure the hold timer for link up event dampening.
Range	0 to 100
Default	5
Units	deciseconds
Introduced	16.0.R4

loopback *keyword*

Context	**configure port** *port* **sonet-sdh**
Description	Loopback to activate on SONET port
Options	line, internal
Introduced	16.0.R1

report-alarm

Context	**configure port** *port* **sonet-sdh**
Description	Enter the report-alarm context
Introduced	16.0.R1

lais *boolean*

Context	**configure port** *port* **sonet-sdh report-alarm**
Description	Report Line Indication Signal Errors alarm
Default	false
Introduced	16.0.R1

lb2er-sd *boolean*

Context	**configure port** *port* **sonet-sdh report-alarm**
Description	Report alarm for line signal degradation BER (bit interleaved parity) errors
Default	false
Introduced	16.0.R1

lb2er-sf *boolean*

Context **configure port** *port* **sonet-sdh report-alarm**
Description Report alarm line signal failure BER errors
Default true
Introduced 16.0.R1

loc *boolean*

Context **configure port** *port* **sonet-sdh report-alarm**
Description Report alarm for a loss of clock that causes the port to shut down
Default true
Introduced 16.0.R1

lrdi *boolean*

Context **configure port** *port* **sonet-sdh report-alarm**
Description Report Line Remote Defect Indication Errors alarm
Default true
Introduced 16.0.R1

lrei *boolean*

Context **configure port** *port* **sonet-sdh report-alarm**
Description Report alarm for a line error condition
Default false
Introduced 16.0.R1

slof *boolean*

Context **configure port** *port* **sonet-sdh report-alarm**
Description Report alarm for section loss of frame errors
Default true
Introduced 16.0.R1

slos *boolean*

Context	**configure port** *port* **sonet-sdh report-alarm**
Description	Report alarm for section loss of signal error on the transmit side
Default	true
Introduced	16.0.R1

ss1f *boolean*

Context	**configure port** *port* **sonet-sdh report-alarm**
Description	Report alarm for section synchronization failure
Default	false
Introduced	16.0.R1

reset-port-on-path-down *boolean*

Context	**configure port** *port* **sonet-sdh**
Description	Reset port when path goes operationally down
Default	false
Introduced	16.0.R1

sd-threshold *number*

Context	**configure port** *port* **sonet-sdh**
Description	Threshold for line signal failure BER
Range	3 to 9
Default	6
Introduced	16.0.R1

section-trace

Context	**configure port** *port* **sonet-sdh**
Description	Enter the section-trace context
Introduced	16.0.R4

byte *string*

Context	**configure port** *port* **sonet-sdh section-trace**
Description	Set j0 byte to the first octet of the j0 string and the z0 byte to 0xcc.
String Length	1 to 4
Default	1
Introduced	16.0.R4
Notes	This element is part of a choice

increment-z0

Context	**configure port** *port* **sonet-sdh section-trace**
Description	Set the j0 byte to 0x01 and increment z0 byte.
Introduced	16.0.R4
Notes	This element is part of a choice

string *string*

Context	**configure port** *port* **sonet-sdh section-trace**
Description	Set j0 byte to the string and the z0 byte to 0xcc.
String Length	0 to 16
Introduced	16.0.R4
Notes	This element is part of a choice

sf-threshold *number*

Context	**configure port** *port* **sonet-sdh**
Description	Threshold for line signal failure BER
Range	3 to 6
Default	3
Introduced	16.0.R1

single-fiber *boolean*

Context	**configure port** *port* **sonet-sdh**
Description	Allow packet gathering and redirection of IP packets from a single fiber (RX) port
Default	false
Introduced	16.0.R1

speed *keyword*

Context	**configure port** *port* **sonet-sdh**
Description	Configure the speed of a SONET/SDH port to be either OC3 or OC12.
Options	oc3, oc12, oc48, oc192, oc768, oc1
Introduced	16.0.R4

suppress-low-order-alarms *boolean*

Context	**configure port** *port* **sonet-sdh**
Description	Suppress low order alarms
Default	false
Introduced	16.0.R1

tx-dus *boolean*

Context	**configure port** *port* **sonet-sdh**
Description	Enable/disable the forced transmit 0xF (dus/dnu) in S1 overhead byte.
Default	false
Introduced	16.0.R4

transceiver

Context	**configure port** *port*
Description	Enter the transceiver context
Introduced	16.0.R4

digital-coherent-optics *boolean*

Context	**configure port** *port* **transceiver**
Description	Enable/disable digital coherent optics on the transceiver.
Default	false
Introduced	16.0.R4

26 port-policy Commands

configure
- — **port-policy** *string*
  - — **description** *string*
  - — **egress-port-scheduler-policy** *string*

26.1 port-policy Command Descriptions

port-policy [name] *string*

Context	**configure**
Description	Enter the port-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure port-policy** *string*
Description	Port policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure port-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-port-scheduler-policy *string*

Context	**configure port-policy** *string*
Description	Policy for egress port scheduler
Reference	configure **qos port-scheduler-policy** *string*
Introduced	16.0.R1

27 port-xc Commands

configure
- — **port-xc**
  - — **pxc** *number*
    - — **admin-state** *keyword*
    - — **description** *string*
    - — **port-id** *string*

27.1 port-xc Command Descriptions

port-xc

Context	**configure**
Description	Enter the port-xc context
Introduced	16.0.R1

pxc [pxc-id] *number*

Context	**configure port-xc**
Description	Enter the pxc context
Introduced	16.0.R1

[pxc-id] *number*

Context	**configure port-xc pxc** *number*
Description	Unique Identifier for the PXC
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure port-xc pxc** *number*
Description	Administrative state of PXC
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure port-xc pxc** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

port-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure port-xc pxc** *number*
Description	PXC port
Reference	configure **port** *port*
Introduced	16.0.R1

28 pw-port Commands

configure
- — **pw-port** *number*
  - — **description** *string*
  - — **dot1q-etype** *etype*
  - — **encap-type** *keyword*
  - — **epipe** *string*
    - — **admin-state** *keyword*
    - — **egress**
      - — **shaper**
        - — **intermediate-destination-id** *string*
        - — **virtual-port** *string*
    - — **fpe-id** *string*
    - — **monitor-oper-group** *string*
  - — **qinq-etype** *etype*
  - — **sdp** *string*
    - — **admin-state** *keyword*
    - — **egress**
      - — **shaper**
        - — **intermediate-destination-id** *string*
        - — **pw-sap-secondary-shaper** *string*
        - — **virtual-port** *string*
      - — **vc-label** *number*
    - — **ingress**
      - — **vc-label** *number*
    - — **monitor-oper-group** *string*
    - — **vc-id** *number*
    - — **vc-type** *keyword*
    - — **vlan-vc-tag** *number*

28.1 pw-port Command Descriptions

pw-port [pw-port-id] *number*

Context	**configure**
Description	Enter the pw-port context
Introduced	16.0.R1

[pw-port-id] *number*

Context	**configure pw-port** *number*
Description	The identifier which uniquely identifies the pw-port.
Range	1 to 32767
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure pw-port** *number*
Description	Description of the pseudo-wire port
String Length	1 to 160
Default	PW Port
Introduced	16.0.R1

dot1q-etype *etype*

Context	**configure pw-port** *number*
Description	Dot1q eth-type encapsulation value as 0xXXYY with range 0x0600-0xFFFF.
Default	33024
Introduced	16.0.R1

encap-type *keyword*

Context	**configure pw-port** *number*
Description	Encap type of the pseudo-wire port
Default	dot1q
Options	dot1q, qinq
Introduced	16.0.R1

epipe [service-name] *string*

Context	**configure pw-port** *number*
Description	Enter the **epipe** context
Max. Elements	1
Introduced	16.0.R4

[service-name] *string*

Context	**configure pw-port** *number* **epipe** *string*
Description	Name of the Epipe service
Reference	configure **service epipe** *service-name*
Introduced	16.0.R4
Notes	This element is part of a choice
	This element is part of a list key

admin-state *keyword*

Context	**configure pw-port** *number* **epipe** *string*
Description	Specifies desired state of this pseudo-wire port.
Default	enable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

egress

Context	**configure pw-port** *number* **epipe** *string*
Description	Enter the **egress** context
Introduced	16.0.R4

shaper

Context	**configure pw-port** *number* **epipe** *string* **egress**
Description	Enter the **shaper** context
Introduced	16.0.R4

intermediate-destination-id *string*

Context	**configure pw-port** *number* **epipe** *string* **egress shaper**
Description	Specifies the default intermediate destination identifier on the egress side which will eventualy map to an HSMDAv2 secondary shaper.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

virtual-port *string*

Context	**configure pw-port** *number* **epipe** *string* **egress shaper**
Description	Specifies the virtual port name of the shaper on the egress side.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

fpe-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure pw-port** *number* **epipe** *string*
Description	Forward path extension identifier.
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

monitor-oper-group *string*

Context	**configure pw-port** *number* **epipe** *string*
Description	Specifies the monitoring operational group name.
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

qinq-etype *etype*

Context	**configure pw-port** *number*
Description	QinQ eth-type encapsulation value. as 0xXXYY with range 0x0600-0xFFFF.
Default	33024
Introduced	16.0.R1

sdp [sdp-id] *string*

Context	**configure pw-port** *number*
Description	Enter the **sdp** context
Max. Elements	1
Introduced	16.0.R4

[sdp-id] *string*

Context	**configure pw-port** *number* **sdp** *string*
Description	Service Distribution Point (SDP) identifier.
Reference	configure **service sdp** *number*
Introduced	16.0.R4
Notes	This element is part of a choice This element is part of a list key

admin-state *keyword*

Context	**configure pw-port** *number* **sdp** *string*
Description	Specifies desired state of this pseudo-wire port.
Default	disable
Options	enable, disable
Introduced	16.0.R4
Notes	This element is part of a choice

egress

Context	**configure pw-port** *number* **sdp** *string*
Description	Enter the **egress** context
Introduced	16.0.R4

shaper

Context	**configure pw-port** *number* **sdp** *string* **egress**
Description	Enter the **shaper** context
Introduced	16.0.R4

intermediate-destination-id *string*

Context	**configure pw-port** *number* **sdp** *string* **egress shaper**
Description	Specifies the default intermediate destination identifier on the egress side which will eventualy map to an HSMDAv2 secondary shaper.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

pw-sap-secondary-shaper *string*

Context	**configure pw-port** *number* **sdp** *string* **egress shaper**
Description	Specifies the SAP secondary shaper associated on the egress side.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

virtual-port *string*

Context	**configure pw-port** *number* **sdp** *string* **egress shaper**
Description	Specifies the virtual port name of the shaper on the egress side.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure pw-port** *number* **sdp** *string* **egress**
Description	Specifies the static MPLS VC label to send packets to the far-end device.
Range	16 to 1048575
Introduced	16.0.R4
Notes	This element is part of a choice

ingress

Context	**configure pw-port** *number* **sdp** *string*
Description	Enter the **ingress** context
Introduced	16.0.R4

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure pw-port** *number* **sdp** *string* **ingress**
Description	Specifies the static MPLS VC label to receive packets from the far-end device.
Range	1 to 1048575
Introduced	16.0.R4
Notes	This element is part of a choice

monitor-oper-group *string*

Context	**configure pw-port** *number* **sdp** *string*
Description	Specifies the monitoring operational group name.
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

vc-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure pw-port** *number* **sdp** *string*
Description	Specifies the virtual-circuit identifier associated with this pseudo-wire port.
Range	1 to 4294967295
Introduced	16.0.R4
Notes	This element is mandatory This element is part of a choice

vc-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure pw-port** *number* **sdp** *string*
Description	Specifies the type of virtual circuit (VC).
Default	ether
Options	ether, vlan
Introduced	16.0.R4
Notes	This element is part of a choice

vlan-vc-tag *number*

Context	**configure pw-port** *number* **sdp** *string*
Description	Specifies the VLAN VC tag.
Range	0 to 4094
Introduced	16.0.R4
Notes	This element is part of a choice

29 python Commands

configure
- **python**
  - **python-policy** *string*
    - **cache**
      - **admin-state** *keyword*
      - **entry-size** *number*
      - **max-entries** *number*
      - **max-entry-lifetime** *number*
      - **mcs-peer**
        - **ip-address** *string*
        - **sync-tag** *string*
      - **minimum-lifetimes**
        - **high-availability** *number*
        - **multi-chassis-redundancy** *number*
        - **persistence** *number*
      - **persistence** *boolean*
    - **description** *string*
    - **dhcp** *keyword* **direction** *keyword*
      - **script** *string*
    - **dhcp6** *keyword* **direction** *keyword*
      - **script** *string*
    - **diameter** *keyword* **direction** *keyword*
      - **script** *string*
    - **gtpv1-c** *keyword* **direction** *keyword*
      - **script** *string*
    - **gtpv2-c** *keyword* **direction** *keyword*
      - **script** *string*
    - **nat-group** *string*
    - **pppoe** *keyword* **direction** *keyword*
      - **script** *string*
    - **radius** *keyword* **direction** *keyword*
      - **script** *string*
    - **syslog**
      - **script** *string*
    - **vsd**
      - **script** *string*
    - **wlan-gw-group** *string*
  - **python-script** *string*
    - **action-on-fail** *keyword*
    - **admin-state** *keyword*
    - **description** *string*
    - **protection**
      - **hmac-sha256** *encrypted-leaf*
    - **urls** *url*

29.1 python Command Descriptions

python

Context	**configure**
Description	Enter the python context
Introduced	16.0.R1

python-policy [name] *string*

Context	**configure python**
Description	Enter the python-policy context
Max. Elements	64
Introduced	16.0.R1

[name] *string*

Context	**configure python python-policy** *string*
Description	Python policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

cache

Context	**configure python python-policy** *string*
Description	Enter the cache context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure python python-policy** *string* **cache**
Description	Administrative state of the Python cache
Default	disable
Options	enable, disable
Introduced	16.0.R1

entry-size *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure python python-policy** *string* **cache**
Description	Maximum size of the data structure to be stored in a single Python cache entry
Range	32 to 2048
Default	256
Units	bytes
Introduced	16.0.R1

max-entries *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure python python-policy** *string* **cache**
Description	Maximum number of Python cache entries to be stored in the cache of this Python policy
Range	1 to 1000000
Default	128000
Introduced	16.0.R1

max-entry-lifetime *number*

Context	**configure python python-policy** *string* **cache**
Description	Maximum lifetime allowed for each entry of the Python cache of this Python policy
Range	1 to 604800
Default	86400
Units	seconds
Introduced	16.0.R1

mcs-peer

Context	**configure python python-policy** *string* **cache**
Description	Enter the mcs-peer context
Introduced	16.0.R1

ip-address *string*

Context	**configure python python-policy** *string* **cache mcs-peer**
Description	IP address of the Multi-Chassis Redundancy Synchronization (MCS) peer
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*

Context	**configure python python-policy** *string* **cache mcs-peer**
Description	Python policy cache that is uniquely identified within the scope of MCS peer
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

minimum-lifetimes

Context	**configure python python-policy** *string* **cache**
Description	Enter the minimum-lifetimes context
Introduced	16.0.R1

high-availability *number*

Context	**configure python python-policy** *string* **cache minimum-lifetimes**
Description	Minimum value for the remaining lifetime of any cache entry to be synchronized with standby CPM
Range	1 to 600
Units	seconds
Introduced	16.0.R1

multi-chassis-redundancy *number*

Context	**configure python python-policy** *string* **cache minimum-lifetimes**
Description	Minimum value for the remaining lifetime of any cache entry to be synchronized with peer system
Range	1 to 600
Units	seconds
Introduced	16.0.R1

persistence *number*

Context	**configure python python-policy** *string* **cache minimum-lifetimes**
Description	Minimum value for the remaining lifetime of any cache entry to be written to system persistence
Range	1 to 1800
Units	seconds
Introduced	16.0.R1

persistence *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure python python-policy** *string* **cache**
Description	Allow persistency support for the cached entries of the Python policy
Default	false
Introduced	16.0.R1

description *string*

Context	**configure python python-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dhcp [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the dhcp context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **dhcp** *keyword* **direction** *keyword*
Description	DHCP message type
Options	discover, offer, request, decline, ack, nak, release, inform, force-renew, lease-query, lease-unassigned, lease-unknown, lease-active
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **dhcp** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **dhcp** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

dhcp6 [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the dhcp6 context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **dhcp6** *keyword* **direction** *keyword*
Description	DHCPv6 message type
Options	solicit, advertise, request, confirm, renew, rebind, reply, release, decline, reconfigure, info-request, relay-forward, relay-reply
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **dhcp6** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **dhcp6** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

diameter [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the diameter context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **diameter** *keyword* **direction** *keyword*
Description	Diameter message type
Options	ccr, cca, rar, raa, cer, cea, dwr, dwa, dpr, dpa, asr, asa, aar, aaa
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **diameter** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **diameter** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

gtpv1-c [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the gtpv1-c context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **gtpv1-c** *keyword* **direction** *keyword*
Description	GTPv1-C message type
Options	echo-request, echo-response, version-not-supported, create-pdp-context-request, create-pdp-context-response, delete-pdp-context-request, delete-pdp-context-response, error-indication, end-marker
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **gtpv1-c** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **gtpv1-c** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

gtpv2-c [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the gtpv2-c context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **gtpv2-c** *keyword* **direction** *keyword*
Description	GTPv2-C message type
Options	echo-request, echo-response, version-not-supported, create-session-request, create-session-response, modify-bearer-request, modify-bearer-response, delete-session-request, delete-session-response, delete-bearer-request, delete-bearer-response, release-access-bearers-request, release-access-bearers-response, downlink-data-notification, downlink-data-notification-ack, change-notification-request, change-notification-response, stop-paging-indication
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **gtpv2-c** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **gtpv2-c** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

nat-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure python python-policy** *string*
Description	NAT ISA group for this Python policy
Reference	configure **isa nat-group** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

pppoe [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the pppoe context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **pppoe** *keyword* **direction** *keyword*
Description	PPPoE message type
Options	session-lcp, session-pap, session-chap, session-ipcp, session-ip6cp, pado, padi, padr, pads, padt
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **pppoe** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **pppoe** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

radius [message-type] *keyword* **direction** *keyword*

Context	**configure python python-policy** *string*
Description	Enter the radius context
Introduced	16.0.R1

[message-type] *keyword*

Context	**configure python python-policy** *string* **radius** *keyword* **direction** *keyword*
Description	RADIUS message type
Options	access-request, access-accept, access-reject, accounting-request, accounting-response, access-challenge, disconnect-request, change-of-authorization-request
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure python python-policy** *string* **radius** *keyword* **direction** *keyword*
Description	Event that is either incoming or outgoing
Options	ingress, egress
Introduced	16.0.R1
Notes	This element is part of a list key

script *string*

Context	**configure python python-policy** *string* **radius** *keyword* **direction** *keyword*
Description	Python script name for the message specified by message-type
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

syslog

Context	**configure python python-policy** *string*
Description	Enter the syslog context
Introduced	16.0.R1

script *string*

Context	**configure python python-policy** *string* **syslog**
Description	Python script name for outgoing syslog messages
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

vsd

Context	**configure python python-policy** *string*
Description	Enter the vsd context
Introduced	16.0.R1

script *string*

Context	**configure python python-policy** *string* **vsd**
Description	Python script name for the received XMPP Service-Config response messages
Reference	configure **python python-script** *string*
Introduced	16.0.R1
Notes	This element is mandatory

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure python python-policy** *string*
Description	WLAN ISA group for this Python policy
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

python-script [name] *string*

Context	**configure python**
Description	Enter the python-script context
Max. Elements	256
Introduced	16.0.R1

[name] *string*

Context	**configure python python-script** *string*
Description	Python script policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

action-on-fail *keyword*

Context	**configure python python-script** *string*
Description	Action taken when Python fails to modify the given message
Default	drop
Options	passthrough, drop
Introduced	16.0.R1

admin-state *keyword*

Context	**configure python python-script** *string*
Description	Administrative state of the Python script
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure python python-script** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

protection

Context	**configure python python-script** *string*
Description	Enter the protection context
Introduced	16.0.R1

hmac-sha256 *encrypted-leaf*

Context	**configure python python-script** *string* **protection**
Description	Python script to consist of the hash value as obtained by the hmac-sha256 hashing algorithm
String Length	1 to 198
Introduced	16.0.R1

urls *url*

Context	**configure python python-script** *string*
Description	The script locations in URL format
String Length	1 to 180
Max. Elements	3
Introduced	16.0.R4
Notes	This element is ordered by user

30 qos Commands

configure
- — **qos**
  - — **adv-config-policy** *string*
    - — **child-control**
      - — **bandwidth-distribution**
        - — **above-offered-cap**
          - — **percent** *decimal-number*
          - — **rate** (*number* | *keyword*)
        - — **enqueue-on-pir-zero** *boolean*
        - — **granularity**
          - — **percent** *decimal-number*
          - — **rate** *number*
        - — **internal-scheduler-weight-mode** *keyword*
        - — **limit-pir-zero-drain** *boolean*
        - — **lub-init-min-pir** *boolean*
      - — **offered-measurement**
        - — **add**
          - — **active-min-only** *boolean*
          - — **min-only** *boolean*
          - — **percent** *decimal-number*
          - — **rate** *number*
        - — **fast-start** *boolean*
        - — **fast-stop** *boolean*
        - — **granularity**
          - — **percent** *decimal-number*
          - — **rate** *number*
        - — **hold-time**
          - — **active-min-only** *boolean*
          - — **high-rate** *number*
        - — **max-decrement**
          - — **percent** *decimal-number*
          - — **rate** *number*
        - — **sample-interval** *number*
        - — **time-average-factor**
          - — **dec-only** *boolean*
          - — **weighting-factor** *number*
    - — **description** *string*
  - — **atm-td-profile** *number*
    - — **clp-tagging** *boolean*
    - — **description** *string*
    - — **descriptor-type** *keyword*
    - — **policing** *boolean*
    - — **service-category** *keyword*
    - — **shaping** *boolean*
    - — **traffic**
      - — **cdvt** *number*
      - — **mbs** *number*
      - — **mir** *number*
      - — **pir** *number*
      - — **sir** *number*

```
        — weight number
    — hs-attachment-policy string
        — description string
        — low-burst-max-class number
        — queue number
            — sched-class number
            — unattached
            — wrr-group number
        — wrr-group number
            — sched-class number
            — unattached
    — hs-pool-policy string
        — description string
        — mid-tier
            — mid-pool number
                — allocation-percent decimal-number
                — parent-root-pool
                    — none
                    — pool-id string
                — port-bw-oversubscription-factor number
                — slope-policy string
        — root-tier
            — root-pool number
                — allocation-weight number
                — slope-policy string
        — system-reserve decimal-number
    — hs-port-pool-policy string
        — alt-port-class-pools
            — class-pool number
                — allocation
                    — explicit-percent decimal-number
                    — port-bw-weight number
                — parent-mid-pool
                    — none
                    — pool-id number
                — slope-policy string
        — description string
        — std-port-class-pools
            — class-pool number
                — allocation
                    — explicit-percent decimal-number
                    — port-bw-weight number
                — parent-mid-pool
                    — none
                    — pool-id number
                — slope-policy string
    — hs-scheduler-policy string
        — description string
        — group number
            — rate (number | keyword)
        — max-rate (number | keyword)
        — scheduling-class number
            — group
                — group-id number
```

```
            — weight number
        — rate (number | keyword)
    — hsmda-pool-policy string
        — class-tier
            — class-pool number
                — allocation-percent decimal-number
                — root-parent string
        — description string
        — root-tier
            — root-pool number
                — allocation-weight number
        — system-reserve decimal-number
    — hsmda-scheduler-policy string
        — burst-limit (number | keyword)
        — description string
        — group number
            — burst-limit (number | keyword)
            — rate (number | keyword)
        — max-rate (number | keyword)
        — scheduling-class number
            — burst-limit (number | keyword)
            — group
                — group-id number
                — weight number
            — rate (number | keyword)
    — hsmda-slope-policy string
        — description string
        — high-slope
            — admin-state keyword
            — max-depth decimal-number
            — max-prob decimal-number
            — start-depth decimal-number
        — low-slope
            — admin-state keyword
            — max-depth decimal-number
            — max-prob decimal-number
            — start-depth decimal-number
    — hsmda-wrr-policy string
        — class-agg-weight number
        — description string
        — include-queues keyword
        — schedule-using-class number
    — match-list
        — ip-prefix-list string
            — description string
            — prefix ipv4-prefix
        — ipv6-prefix-list string
            — description string
            — prefix ipv6-prefix
    — mc-fr-profile-egress number
        — class number
            — max-queue-size number
            — mir number
            — weight number
```

```
        — description string
    — mc-fr-profile-ingress number
        — class number
            — reassembly-timeout number
        — description string
    — md-auto-id
        — qos-policy-id-range
            — end number
            — start number
    — mlppp-profile-egress number
        — class number
            — max-queue-size number
            — mir number
            — weight number
        — description string
        — fc keyword
            — mlppp-class number
    — mlppp-profile-ingress number
        — class number
            — reassembly-timeout number
        — description string
    — named-pool-policy string
        — description string
        — pool string
            — amber-alarm-threshold number
            — application-weights
                — access-allocation-weight number
                — network-allocation-weight number
            — description string
            — red-alarm-threshold number
            — resv-cbs
                — amber-alarm-action
                    — max number
                    — step number
                — cbs number
            — slope-policy string
        — port-allocation-weights
            — default number
            — mda number
            — port number
    — network network-policy-name
        — description string
        — egress
            — dscp keyword
                — fc keyword
                — profile keyword
            — fc keyword
                — de-mark
                    — force number
                — dot1p-in-profile number
                — dot1p-out-profile number
                — dscp-in-profile keyword
                — dscp-out-profile keyword
                — lsp-exp-in-profile number
```

- **lsp-exp-out-profile** *number*
- **port-redirect-group**
  - **policer** *number*
  - **queue** *number*

- **ip-criteria**
  - **entry** *number*
    - **action**
      - **fc** *keyword*
      - **port-redirect-group**
        - **policer** *number*
        - **queue** *number*
      - **profile** *keyword*
      - **type** *keyword*
    - **description** *string*
    - **match**
      - **dscp** *keyword*
      - **dst-ip**
        - **address** (*string* | *string*)
        - **mask** *ipv4-address*
      - **dst-port**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
      - **fragment** *keyword*
      - **icmp-type** *number*
      - **protocol** (*number* | *keyword*)
      - **src-ip**
        - **address** (*string* | *string*)
        - **mask** *ipv4-address*
      - **src-port**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*

- **ipv6-criteria**
  - **entry** *number*
    - **action**
      - **fc** *keyword*
      - **port-redirect-group**
        - **policer** *number*
        - **queue** *number*
      - **profile** *keyword*
      - **type** *keyword*
    - **description** *string*
    - **match**
      - **dscp** *keyword*
      - **dst-ip**
        - **address** (*string* | *string*)
        - **mask** *ipv6-address*

```
                    — dst-port
                        — eq number
                        — gt number
                        — lt number
                        — range
                            — end number
                            — start number
                    — fragment keyword
                    — icmp-type number
                    — next-header (number | keyword)
                    — src-ip
                        — address (string | string)
                        — mask ipv6-address
                    — src-port
                        — eq number
                        — gt number
                        — lt number
                        — range
                            — end number
                            — start number
            — prec number
                — fc keyword
                — profile keyword
            — remark-trusted
                — force-egress-marking boolean
        — ingress
            — default-action
                — fc keyword
                — profile keyword
            — dot1p number
                — fc keyword
                — profile keyword
            — dscp keyword
                — fc keyword
                — profile keyword
            — fc keyword
                — fp-redirect-group
                    — broadcast-policer number
                    — multicast-policer number
                    — policer number
                    — unknown-policer number
            — ip-criteria
                — entry number
                    — action
                        — fc keyword
                        — profile keyword
                        — type keyword
                    — description string
                    — match
                        — dscp keyword
                        — dst-ip
                            — address (string | string)
                            — ip-prefix-list string
                            — mask ipv4-address
```

- **dst-port**
  - **eq** *number*
  - **gt** *number*
  - **lt** *number*
  - **range**
    - **end** *number*
    - **start** *number*
- **fragment** *keyword*
- **protocol** (*number* | *keyword*)
- **src-ip**
  - **address** (*string* | *string*)
  - **ip-prefix-list** *string*
  - **mask** *ipv4-address*
- **src-port**
  - **eq** *number*
  - **gt** *number*
  - **lt** *number*
  - **range**
    - **end** *number*
    - **start** *number*

- **ipv6-criteria**
  - **entry** *number*
    - **action**
      - **fc** *keyword*
      - **profile** *keyword*
      - **type** *keyword*
    - **description** *string*
    - **match**
      - **dscp** *keyword*
      - **dst-ip**
        - **address** (*string* | *string*)
        - **ipv6-prefix-list** *string*
        - **mask** *ipv6-address*
      - **dst-port**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
      - **fragment** *keyword*
      - **next-header** (*number* | *keyword*)
      - **src-ip**
        - **address** (*string* | *string*)
        - **ipv6-prefix-list** *string*
        - **mask** *ipv6-address*
      - **src-port**
        - **eq** *number*
        - **gt** *number*
        - **lt** *number*
        - **range**
          - **end** *number*
          - **start** *number*
- **ler-use-dscp** *boolean*

- — **lsp-exp** *number*
  - — **fc** *keyword*
  - — **profile** *keyword*
- — **policy-id** *number*
- — **scope** *keyword*

— **network-queue** *string*
- — **description** *string*
- — **egress-hsmda**
  - — **packet-byte-offset** *number*
  - — **queue** *number*
    - — **adaptation-rule**
      - — **pir** *keyword*
    - — **burst-limit** (*number* | *keyword*)
    - — **mbs** (*number* | *keyword*)
    - — **percent-rate** *decimal-number*
    - — **slope-policy** *string*
    - — **wrr-weight** *number*
  - — **wrr-policy** *string*
- — **fc** *keyword*
  - — **egress-hsmda**
    - — **queue** *number*
  - — **multicast-queue** *string*
  - — **queue** *string*
- — **hs-attachment-policy** *string*
- — **hs-wrr-group** *number*
  - — **adaptation-rule**
    - — **pir** *keyword*
  - — **hs-class-weight** *number*
  - — **rate** *number*
- — **queue** *number*
  - — **adaptation-rule**
    - — **cir** *keyword*
    - — **fir** *keyword*
    - — **pir** *keyword*
  - — **avg-frame-overhead** *decimal-number*
  - — **cbs** *decimal-number*
  - — **drop-tail**
    - — **low**
      - — **percent-reduction-from-mbs** (*number* | *keyword*)
  - — **hs-alt-port-class-pool** *boolean*
  - — **hs-class-weight** *number*
  - — **hs-mbs** *decimal-number*
  - — **hs-wred-queue**
    - — **policy** *string*
  - — **hs-wrr-weight** *number*
  - — **mbs** *decimal-number*
  - — **multipoint** *boolean*
  - — **pool** *string*
  - — **port-parent**
    - — **cir-level** *number*
    - — **cir-weight** *number*
    - — **level** *number*
    - — **weight** *number*
  - — **queue-type** *keyword*

```
            — rate
                — cir number
                — fir number
                — pir number
    — policer-control-policy string
        — description string
        — root
            — max-rate (number | keyword)
            — priority-mbs-thresholds
                — min-thresh-separation (number | keyword)
                — priority number
                    — fixed-mbs boolean
                    — mbs-contribution (number | keyword)
            — profile-preferred boolean
        — tier number
            — arbiter string
                — arbiter-parent
                    — arbiter-name string
                    — level number
                    — weight number
                — description string
                — rate (number | keyword)
    — port-scheduler-policy string
        — description string
        — dist-lag-rate-shared boolean
        — group string
            — monitor-threshold number
            — percent-rate
                — cir decimal-number
                — pir decimal-number
            — rate
                — cir (number | keyword)
                — pir (number | keyword)
        — level number
            — group string
            — monitor-threshold number
            — percent-rate
                — cir decimal-number
                — pir decimal-number
            — rate
                — cir (number | keyword)
                — pir (number | keyword)
            — weight number
        — max-percent-rate decimal-number
        — max-rate (number | keyword)
        — monitor-threshold number
        — orphan-overrides
            — cir-level number
            — cir-weight number
            — level number
            — weight number
    — post-policer-mapping string
        — description string
        — fc keyword profile keyword
```

```
        — maps-to
            — fc keyword
            — profile keyword
    — queue-group-redirect-list string
        — match number
            — instance number
        — type keyword
    — queue-group-templates
        — egress
            — queue-group string
                — description string
                — fc keyword
                    — queue
                        — none
                        — queue-id string
                — hs-attachment-policy string
                — hs-wrr-group number
                    — adaptation-rule
                        — pir keyword
                    — hs-class-weight number
                    — percent-rate decimal-number
                    — rate (number | keyword)
                — hsmda-queues
                    — low-burst-max-class number
                    — packet-byte-offset number
                    — queue number
                        — adaptation-rule
                            — pir keyword
                        — burst-limit (number | keyword)
                        — mbs (number | keyword)
                        — rate (number | keyword)
                        — slope-policy string
                        — wrr-weight number
                    — wrr-policy string
                — policer number
                    — adaptation-rule
                        — cir keyword
                        — pir keyword
                    — adv-config-policy string
                    — arbiter-parent
                        — arbiter-name string
                        — level number
                        — weight number
                    — cbs (number | keyword)
                    — description string
                    — exceed-pir boolean
                    — high-prio-only (number | keyword)
                    — mbs (number | keyword)
                    — packet-byte-offset number
                    — profile-capped boolean
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
                    — stat-mode keyword
```

- **queue** *number*
  - **adaptation-rule**
    - **cir** *keyword*
    - **pir** *keyword*
  - **adv-config-policy** *string*
  - **burst-limit** (*number* | *keyword*)
  - **cbs** (*number* | *keyword*)
  - **drop-tail**
    - **exceed**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **high**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **highplus**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **low**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
  - **dynamic-mbs** *boolean*
  - **hs-alt-port-class-pool** *boolean*
  - **hs-class-weight** *number*
  - **hs-wred-queue**
    - **policy** *string*
  - **hs-wrr-weight** *number*
  - **mbs** (*number* | *keyword*)
  - **packet-byte-offset** *number*
  - **percent-rate**
    - **cir** *decimal-number*
    - **pir** *decimal-number*
  - **pool** *string*
  - **port-parent**
    - **cir-level** *number*
    - **cir-weight** *number*
    - **level** *number*
    - **weight** *number*
  - **queue-delay** *number*
  - **queue-type** *keyword*
  - **rate**
    - **cir** (*number* | *keyword*)
    - **pir** (*number* | *keyword*)
  - **scheduler-parent**
    - **cir-level** *number*
    - **cir-weight** *number*
    - **level** *number*
    - **scheduler-name** *string*
    - **weight** *number*
  - **wred-queue**
    - **mode** *keyword*
    - **policy** *string*
    - **usage** *keyword*
  - **queues-hqos-manageable** *boolean*
- **ingress**
  - **queue-group** *string*
    - **description** *string*
    - **policer** *number*
      - **adaptation-rule**

```
            — cir keyword
            — pir keyword
         — adv-config-policy string
         — arbiter-parent
            — arbiter-name string
            — level number
            — weight number
         — cbs (number | keyword)
         — description string
         — high-prio-only (number | keyword)
         — mbs (number | keyword)
         — packet-byte-offset number
         — profile-capped boolean
         — rate
            — cir (number | keyword)
            — pir (number | keyword)
         — stat-mode keyword
      — queue number
         — adaptation-rule
            — cir keyword
            — fir keyword
            — pir keyword
         — adv-config-policy string
         — burst-limit (number | keyword)
         — cbs (number | keyword)
         — cir-non-profiling boolean
         — drop-tail
            — low
               — percent-reduction-from-mbs (number | keyword)
         — mbs (number | keyword)
         — multipoint boolean
         — packet-byte-offset number
         — pool string
         — queue-mode keyword
         — queue-type keyword
         — rate
            — cir (number | keyword)
            — fir (number | keyword)
            — pir (number | keyword)
            — police
         — scheduler-parent
            — cir-level number
            — cir-weight number
            — level number
            — scheduler-name string
            — weight number
— sap-egress qos-policy-name
   — description string
   — dot1p number
      — fc keyword
      — profile keyword
   — dscp keyword
      — fc keyword
      — hsmda-counter-override number
```

- **profile** *keyword*
- **ethernet-ctag** *boolean*
- **fc** *keyword*
  - **de-mark**
    - **force** *number*
  - **de-mark-inner**
    - **force** *number*
  - **de-mark-outer**
    - **force** *number*
  - **dot1p**
    - **exceed-profile** *number*
    - **in-profile** *number*
    - **out-profile** *number*
  - **dot1p-inner**
    - **in-profile** *number*
    - **out-profile** *number*
  - **dot1p-outer**
    - **exceed-profile** *number*
    - **in-profile** *number*
    - **out-profile** *number*
  - **dscp**
    - **exceed-profile** *keyword*
    - **in-profile** *keyword*
    - **out-profile** *keyword*
  - **hsmda**
    - **port-redirect-group-queue**
      - **queue** *string*
    - **queue** *string*
  - **policer** *string*
  - **port-redirect-group-queue**
    - **queue** *number*
  - **prec**
    - **exceed-profile** *number*
    - **in-profile** *number*
    - **out-profile** *number*
  - **queue** *string*
  - **queue-group-queue**
    - **instance** *number*
    - **queue** *string*
    - **queue-group-name** *string*
- **hs-attachment-policy** *string*
- **hs-wrr-group** *number*
  - **adaptation-rule**
    - **pir** *keyword*
  - **hs-class-weight** *number*
  - **percent-rate** *decimal-number*
  - **rate** (*number* | *keyword*)
- **hsmda-queues**
  - **low-burst-max-class** *number*
  - **packet-byte-offset** *number*
  - **queue** *number*
    - **adaptation-rule**
      - **pir** *keyword*
    - **burst-limit** (*number* | *keyword*)

```
            — mbs (number | keyword)
            — rate (number | keyword)
            — slope-policy string
            — wrr-weight number
        — wrr-policy string
    — ip-criteria
        — entry number
            — action
                — fc keyword
                — hsmda-counter-override number
                — policer string
                — port-redirect-group-queue boolean
                — profile keyword
                — queue number
                — type keyword
                — use-fc-mapped-queue boolean
            — description string
            — match
                — dscp keyword
                — dst-ip
                    — address (string | string)
                    — ip-prefix-list string
                    — mask ipv4-address
                — dst-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — fragment keyword
                — protocol (number | keyword)
                — src-ip
                    — address (string | string)
                    — ip-prefix-list string
                    — mask ipv4-address
                — src-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
    — ipv6-criteria
        — entry number
            — action
                — fc keyword
                — hsmda-counter-override number
                — policer string
                — port-redirect-group-queue boolean
                — profile keyword
                — queue number
                — type keyword
                — use-fc-mapped-queue boolean
```

- **description** *string*
- **match**
  - **dscp** *keyword*
  - **dst-ip**
    - **address** (*string* | *string*)
    - **mask** *ipv6-address*
  - **dst-port**
    - **eq** *number*
    - **gt** *number*
    - **lt** *number*
    - **range**
      - **end** *number*
      - **start** *number*
  - **next-header** (*number* | *keyword*)
  - **src-ip**
    - **address** (*string* | *string*)
    - **mask** *ipv6-address*
  - **src-port**
    - **eq** *number*
    - **gt** *number*
    - **lt** *number*
    - **range**
      - **end** *number*
      - **start** *number*
- **parent-location** *keyword*
- **policer** *number*
  - **adaptation-rule**
    - **cir** *keyword*
    - **pir** *keyword*
  - **adv-config-policy** *string*
  - **arbiter-parent**
    - **arbiter-name** *string*
    - **level** *number*
    - **weight** *number*
  - **cbs** (*number* | *keyword*)
  - **description** *string*
  - **dscp-prec-remarking** *boolean*
  - **exceed-pir** *boolean*
  - **high-prio-only** (*number* | *keyword*)
  - **mbs** (*number* | *keyword*)
  - **packet-byte-offset** *number*
  - **percent-rate**
    - **cir** *decimal-number*
    - **pir** *decimal-number*
  - **port-parent**
    - **cir-level** *number*
    - **cir-weight** *number*
    - **level** *number*
    - **weight** *number*
  - **profile-capped** *boolean*
  - **profile-out-preserve** *boolean*
  - **rate**
    - **cir** (*number* | *keyword*)
    - **pir** (*number* | *keyword*)

- **scheduler-parent**
  - **cir-level** *number*
  - **cir-weight** *number*
  - **level** *number*
  - **scheduler-name** *string*
  - **weight** *number*
- **stat-mode** *keyword*
- **policers-hqos-manageable** *boolean*
- **policy-id** *number*
- **post-policer-mapping** *string*
- **prec** *number*
  - **fc** *keyword*
  - **hsmda-counter-override** *number*
  - **profile** *keyword*
- **queue** *number*
  - **adaptation-rule**
    - **cir** *keyword*
    - **pir** *keyword*
  - **adv-config-policy** *string*
  - **avg-frame-overhead** *decimal-number*
  - **burst-limit** (*number* | *keyword*)
  - **cbs** (*number* | *keyword*)
  - **drop-tail**
    - **exceed**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **high**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **highplus**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **low**
      - **percent-reduction-from-mbs** (*number* | *keyword*)
  - **hs-alt-port-class-pool** *boolean*
  - **hs-class-weight** *number*
  - **hs-wred-queue**
    - **policy** *string*
  - **hs-wrr-weight** *number*
  - **mbs** (*number* | *keyword*)
  - **packet-byte-offset** *number*
  - **percent-rate**
    - **cir** *decimal-number*
    - **pir** *decimal-number*
    - **reference-rate** *keyword*
  - **pool** *string*
  - **port-parent**
    - **cir-level** *number*
    - **cir-weight** *number*
    - **level** *number*
    - **weight** *number*
  - **queue-type** *keyword*
  - **rate**
    - **cir** (*number* | *keyword*)
    - **pir** (*number* | *keyword*)
  - **scheduler-parent**
    - **cir-level** *number*

- **cir-weight** *number*
- **level** *number*
- **scheduler-name** *string*
- **weight** *number*

wred-queue

- **mode** *keyword*
- **policy** *string*
- **usage** *keyword*

scope *keyword*

subscriber-mgmt

dynamic-policer

arbiter-parent

- **arbiter-name** *string*
- **level** *number*
- **weight** *number*

cbs (*number* | *keyword*)

mbs (*number* | *keyword*)

packet-byte-offset *number*

policer-id-range

- **end** *number*
- **start** *number*

stat-mode *keyword*

pcc-rule-entry

range

- **end** *number*
- **start** *number*

sap-ingress *qos-policy-name*

default-fc *string*

default-priority *keyword*

description *string*

dot1p *number*

- **fc** *string*
- **priority** *keyword*

dscp *keyword*

- **fc** *string*
- **priority** *keyword*

fc *sap-ingress-fc-name*

broadcast-policer *number*

broadcast-queue *string*

broadcast-queue-group-queue

- **queue** *string*
- **queue-group-name** *string*

de-1-out-profile *boolean*

egress-fc *keyword*

fp-redirect-group-broadcast-policer

fp-redirect-group-multicast-policer

fp-redirect-group-policer

fp-redirect-group-unknown-policer

in-remark

- **dscp** *keyword*
- **prec** *number*

multicast-policer *number*

multicast-queue *string*

multicast-queue-group-queue

```
        — queue string
        — queue-group-name string
    — out-remark
        — dscp keyword
        — prec number
    — policer number
    — profile keyword
    — queue string
    — queue-group-queue
        — queue string
        — queue-group-name string
    — unknown-policer number
    — unknown-queue string
    — unknown-queue-group-queue
        — queue string
        — queue-group-name string
— ip-criteria
    — entry number
        — action
            — fc string
            — policer string
            — priority keyword
            — type keyword
        — description string
        — match
            — dscp keyword
            — dst-ip
                — address (string | string)
                — ip-prefix-list string
                — mask ipv4-address
            — dst-port
                — eq number
                — gt number
                — lt number
                — range
                    — end number
                    — start number
            — fragment keyword
            — protocol (number | keyword)
            — src-ip
                — address (string | string)
                — ip-prefix-list string
                — mask ipv4-address
            — src-port
                — eq number
                — gt number
                — lt number
                — range
                    — end number
                    — start number
            — vxlan-vni
                — eq number
                — range
                    — end number
```

```
                    — start number
        — type keyword
    — ipv6-criteria
        — entry number
            — action
                — fc string
                — policer string
                — priority keyword
                — type keyword
            — description string
            — match
                — dscp keyword
                — dst-ip
                    — address (string | string)
                    — mask ipv6-address
                — dst-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — fragment keyword
                — next-header (number | keyword)
                — src-ip
                    — address (string | string)
                    — mask ipv6-address
                — src-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — vxlan-vni
                    — eq number
                    — range
                        — end number
                        — start number
        — type keyword
    — lsp-exp number
        — fc string
        — priority keyword
    — mac-criteria
        — entry number
            — action
                — fc string
                — policer string
                — priority keyword
                — type keyword
            — description string
            — match
                — atm-vci number
                — dot1p
```

- — **mask** *number*
- — **priority** *number*
- — **dst-mac**
  - — **address** *mac-address*
  - — **mask** *mac-address*
- — **etype** *etype-value*
- — **frame-type** *keyword*
- — **inner-tag**
  - — **mask** *number*
  - — **vlan** *number*
- — **llc-dsap**
  - — **dsap** *number*
  - — **mask** *number*
- — **llc-ssap**
  - — **mask** *number*
  - — **ssap** *number*
- — **outer-tag**
  - — **mask** *number*
  - — **vlan** *number*
- — **snap-oui** *keyword*
- — **snap-pid** *number*
- — **src-mac**
  - — **address** *mac-address*
  - — **mask** *mac-address*

— **type** *keyword*

— **policer** *number*

— **adaptation-rule**
- — **cir** *keyword*
- — **pir** *keyword*

— **adv-config-policy** *string*

— **arbiter-parent**
- — **arbiter-name** *string*
- — **level** *number*
- — **weight** *number*

— **cbs** (*number* | *keyword*)

— **description** *string*

— **high-prio-only** (*number* | *keyword*)

— **mbs** (*number* | *keyword*)

— **packet-byte-offset** *number*

— **percent-rate**
- — **cir** *decimal-number*
- — **pir** *decimal-number*

— **profile-capped** *boolean*

— **rate**
- — **cir** (*number* | *keyword*)
- — **pir** (*number* | *keyword*)

— **stat-mode** *keyword*

— **policy-id** *number*

— **prec** *number*
- — **fc** *string*
- — **priority** *keyword*

— **queue** *number*
- — **adaptation-rule**
  - — **cir** *keyword*

- **fir** *keyword*
- **pir** *keyword*
- **adv-config-policy** *string*
- **burst-limit** (*number* | *keyword*)
- **cbs** (*number* | *keyword*)
- **cir-non-profiling** *boolean*
- **drop-tail**
  - **low**
    - **percent-reduction-from-mbs** (*number* | *keyword*)
- **mbs** (*number* | *keyword*)
- **multipoint** *boolean*
- **packet-byte-offset** *number*
- **percent-rate**
  - **cir** *decimal-number*
  - **fir** *decimal-number*
  - **pir** *decimal-number*
  - **police**
  - **reference-rate** *keyword*
- **pool** *string*
- **queue-mode** *keyword*
- **queue-type** *keyword*
- **rate**
  - **cir** (*number* | *keyword*)
  - **fir** (*number* | *keyword*)
  - **pir** (*number* | *keyword*)
  - **police**
- **scheduler-parent**
  - **cir-level** *number*
  - **cir-weight** *number*
  - **level** *number*
  - **scheduler-name** *string*
  - **weight** *number*
- **scope** *keyword*
- **subscriber-mgmt**
  - **dynamic-policer**
    - **arbiter-parent**
      - **arbiter-name** *string*
      - **level** *number*
      - **weight** *number*
    - **cbs** (*number* | *keyword*)
    - **mbs** (*number* | *keyword*)
    - **packet-byte-offset** *number*
    - **policer-id-range**
      - **end** *number*
      - **start** *number*
    - **stat-mode** *keyword*
  - **pcc-rule-entry**
    - **range**
      - **end** *number*
      - **start** *number*
- **scheduler-policy** *string*
  - **description** *string*
  - **frame-based-accounting** *boolean*
  - **tier** *number*

- **parent-location** *keyword*
- **scheduler** *string*
  - **description** *string*
  - **limit-unused-bandwidth** *boolean*
  - **port-parent**
    - **cir-level** *number*
    - **cir-weight** *number*
    - **level** *number*
    - **weight** *number*
  - **rate**
    - **cir** (*number* | *keyword*)
    - **pir** (*number* | *keyword*)
  - **scheduler-parent**
    - **cir-level** *number*
    - **cir-weight** *number*
    - **level** *number*
    - **scheduler-name** *string*
    - **weight** *number*
- **shared-queue** *string*
  - **description** *string*
  - **fc** *keyword*
    - **broadcast-queue** *number*
    - **multicast-queue** *number*
    - **queue** *number*
    - **unknown-queue** *number*
  - **queue** *number*
    - **cbs** *number*
    - **drop-tail**
      - **low**
        - **percent-reduction-from-mbs** (*number* | *keyword*)
    - **mbs** *number*
    - **multipoint** *boolean*
    - **pool** *string*
    - **queue-type** *keyword*
    - **rate**
      - **cir** *number*
      - **fir** *number*
      - **pir** *number*
- **slope-policy** *string*
  - **description** *string*
  - **exceed-slope**
    - **admin-state** *keyword*
    - **max-avg** *number*
    - **max-prob** *number*
    - **start-avg** *number*
  - **high-slope**
    - **admin-state** *keyword*
    - **max-avg** *number*
    - **max-prob** *number*
    - **start-avg** *number*
  - **highplus-slope**
    - **admin-state** *keyword*
    - **max-avg** *number*
    - **max-prob** *number*

- **start-avg** *number*
- **low-slope**
  - **admin-state** *keyword*
  - **max-avg** *number*
  - **max-prob** *number*
  - **start-avg** *number*
- **time-average-factor** *number*

30.1 qos Command Descriptions

qos

Context	**configure**
Description	Enter the qos context
Introduced	16.0.R1

adv-config-policy [adv-config-policy-name] *string*

Context	**configure qos**
Description	Enter the adv-config-policy context
Max. Elements	255
Introduced	16.0.R1

[adv-config-policy-name] *string*

Context	**configure qos adv-config-policy** *string*
Description	Advanced QoS policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

child-control

Context	**configure qos adv-config-policy** *string*
Description	Enter the child-control context
Introduced	16.0.R1

bandwidth-distribution

Context	**configure qos adv-config-policy** *string* **child-control**
Description	Enter the bandwidth-distribution context
Introduced	16.0.R1

above-offered-cap

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution**
Description	Enter the above-offered-cap context
Introduced	16.0.R1

percent *decimal-number*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution above-offered-cap**
Description	Percentage of the child's administrative PIR that is used as the fair share increase limit
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution above-offered-cap**
Description	Explicit number to assign as limit to the child's fair share increase
Range	0 to 100000000
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

enqueue-on-pir-zero *boolean*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution**
Description	Enqueue the packets when bandwidth-distribution granularity rate is set to zero
Default	false
Introduced	16.0.R1

granularity

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution**
Description	Enter the granularity context
Introduced	16.0.R1

percent *decimal-number*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution granularity**
Description	Rounding percentage value for administratiive PIR
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate *number*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution granularity**
Description	Rounding rate step value
Range	0 to 100000000
Introduced	16.0.R1
Notes	This element is part of a choice

internal-scheduler-weight-mode *keyword*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution**
Description	Weight mode applied to this advanced QoS policy
Options	auto, force-equal, offered-load, capped-offered-load
Introduced	16.0.R1

limit-pir-zero-drain *boolean*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution**
Description	Throttle the queue draining based on bandwidth-distribution granularity rate
Default	false
Introduced	16.0.R1

lub-init-min-pir *boolean*

Context	**configure qos adv-config-policy** *string* **child-control bandwidth-distribution**
Description	Apply minimum rate operational PIR to queue for use by enqueued packets prior to an HQoS iteration
Default	false
Introduced	16.0.R1

offered-measurement

Context	**configure qos adv-config-policy** *string* **child-control**
Description	Enter the offered-measurement context
Introduced	16.0.R1

add

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Enter the add context
Introduced	16.0.R1

active-min-only *boolean*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement add**
Description	Use increase in rate or percentage as minimum offered rate only for active queues or policers
Default	false
Introduced	16.0.R1

min-only *boolean*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement add**
Description	Use specified increase value as a minimum offered rate even for inactive queues or policers
Default	false
Introduced	16.0.R1

percent *decimal-number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement add**
Description	Percentage of child's administrative PIR to add to child's offered rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate *number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement add**
Description	Rate value to add to child's offered rate
Range	0 to 100000000
Introduced	16.0.R1
Notes	This element is part of a choice

fast-start *boolean*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Allow fast detection of initial bandwidth on a child policer or queue associated with policy
Default	false
Introduced	16.0.R1

fast-stop *boolean*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Allow fast detection of lack of offered rate on a child policer or queue associated with the policy
Default	false
Introduced	16.0.R1

granularity

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Enter the granularity context
Introduced	16.0.R1

percent *decimal-number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement granularity**
Description	Percentage of child's administrative PIR used as threshold sensitivity to offered rate change
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate *number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement granularity**
Description	Value to use as child's offered rate change sensitivity value
Range	0 to 100000000
Introduced	16.0.R1
Notes	This element is part of a choice

hold-time

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Enter the hold-time context
Introduced	16.0.R1

active-min-only *boolean*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement hold-time**
Description	Use specified increase value as minimum offered rate only for active queues or policers
Default	false
Introduced	16.0.R1

high-rate *number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement hold-time**
Description	Time during which current offered rate is maintained for a child policer or queue
Range	0 to 60
Default	0
Introduced	16.0.R1

max-decrement

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Enter the max-decrement context
Introduced	16.0.R1

percent *decimal-number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement max-decrement**
Description	Value of the child's administrative PIR to use as the decrement limit to offered rate change
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate *number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement max-decrement**
Description	Value to use as the decrement limit to offered rate change
Range	0 to 100000000
Introduced	16.0.R1
Notes	This element is part of a choice

sample-interval *number*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Interval for sampling the child's offered rate
Range	1 to 8
Default	1
Introduced	16.0.R1

time-average-factor

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement**
Description	Enter the time-average-factor context
Introduced	16.0.R1

dec-only *boolean*

Context	**configure qos adv-config-policy** *string* **child-control offered-measurement time-average-factor**
Description	Apply time average factor adjustment when the offered rate decreases compared to previous
Default	false
Introduced	16.0.R1

weighting-factor *number*

Context **configure qos adv-config-policy** *string* **child-control offered-measurement time-average-factor**

Description New offered rate with a sample of the previous offered rate

Range 0 to 64

Default 0

Introduced 16.0.R1

description *string*

Context **configure qos adv-config-policy** *string*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

atm-td-profile [atm-td-profile-id] *number*

Context **configure qos**

Description Enter the atm-td-profile context

Introduced 16.0.R1

[atm-td-profile-id] *number*

Context **configure qos atm-td-profile** *number*

Description ATM traffic descriptor ID

Range 1 to 1000

Introduced 16.0.R1

Notes This element is part of a list key

clp-tagging *boolean*

Context **configure qos atm-td-profile** *number*

Description Control the setting of the CLP bit in the ATM cell header for egress traffic on IES or VPRN SAP

Default false

Introduced 16.0.R1

description *string*

Context	**configure qos atm-td-profile** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

descriptor-type *keyword*

Context	**configure qos atm-td-profile** *number*
Description	Select the type of ATM traffic descriptor
Options	p01, p01-and-s01, p01-and-s0, p01-and-s0-tag
Introduced	16.0.R1

policing *boolean*

Context	**configure qos atm-td-profile** *number*
Description	Allow ingress traffic policing
Default	false
Introduced	16.0.R1

service-category *keyword*

Context	**configure qos atm-td-profile** *number*
Description	ATM service category
Default	ubr
Options	cbr, rt-vbr, nrt-vbr, ubr
Introduced	16.0.R1

shaping *boolean*

Context	**configure qos atm-td-profile** *number*
Description	Enable cell level shaping when the ATP traffic description profile is applied to an ATM SAP queue
Introduced	16.0.R1

traffic

Context **configure qos atm-td-profile** *number*
Description Enter the traffic context
Introduced 16.0.R1

cdvt *number*

Context **configure qos atm-td-profile** *number* **traffic**
Description Cell Delay Variation Tolerance
Default 250
Units microseconds
Introduced 16.0.R1

mbs *number*

Context **configure qos atm-td-profile** *number* **traffic**
Description Maximum burst size in cell
Introduced 16.0.R1

mir *number*

Context **configure qos atm-td-profile** *number* **traffic**
Description Minimum information rate
Default 0
Units kilobps
Introduced 16.0.R1

pir *number*

Context **configure qos atm-td-profile** *number* **traffic**
Description Peak information rate
Units kilobps
Introduced 16.0.R1

sir *number*

Context	**configure qos atm-td-profile** *number* **traffic**
Description	Sustained information rate
Default	0
Units	kilobps
Introduced	16.0.R1

weight *number*

Context	**configure qos atm-td-profile** *number*
Description	Relative weight for the ATM traffic descriptor based on ATM VP shaper scheduling
Range	1 to 255
Introduced	16.0.R1

hs-attachment-policy [name] *string*

Context	**configure qos**
Description	Enter the hs-attachment-policy context
Max. Elements	31
Introduced	16.0.R1

[name] *string*

Context	**configure qos hs-attachment-policy** *string*
Description	HS attachment policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos hs-attachment-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

low-burst-max-class *number*

Context	**configure qos hs-attachment-policy** *string*
Description	Low priority burst threshold
Range	1 to 6
Default	6
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos hs-attachment-policy** *string*
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos hs-attachment-policy** *string* **queue** *number*
Description	Queue identifier for the HS attachment policy
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

sched-class *number*

Context	**configure qos hs-attachment-policy** *string* **queue** *number*
Description	Specifies scheduling class associated with this queue.
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a choice

unattached

Context	**configure qos hs-attachment-policy** *string* **queue** *number*
Description	Specifies the mapping type associated with this WRR group is unattached.
Introduced	16.0.R1
Notes	This element is part of a choice

wrr-group *number*

Context	**configure qos hs-attachment-policy** *string* **queue** *number*
Description	Specifies wrr group associated with this queue.
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a choice

wrr-group [wrr-group-id] *number*

Context	**configure qos hs-attachment-policy** *string*
Description	Enter the wrr-group context
Introduced	16.0.R1

[wrr-group-id] *number*

Context	**configure qos hs-attachment-policy** *string* **wrr-group** *number*
Description	WRR group ID for the HS attachment policy
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

sched-class *number*

Context	**configure qos hs-attachment-policy** *string* **wrr-group** *number*
Description	Specifies scheduling class associated with this WRR group.
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a choice

unattached

Context	**configure qos hs-attachment-policy** *string* **wrr-group** *number*
Description	Specifies the mapping type associated with this WRR group is unattached.
Introduced	16.0.R1
Notes	This element is part of a choice

hs-pool-policy [name] *string*

Context	**configure qos**
Description	Enter the hs-pool-policy context
Max. Elements	63
Introduced	16.0.R1

[name] *string*

Context	**configure qos hs-pool-policy** *string*
Description	HS pool policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos hs-pool-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

mid-tier

Context	**configure qos hs-pool-policy** *string*
Description	Enter the mid-tier context
Introduced	16.0.R1

mid-pool [mid-pool-id] *number*

Context	**configure qos hs-pool-policy** *string* **mid-tier**
Description	Enter the mid-pool context
Introduced	16.0.R1

[mid-pool-id] *number*

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number*
Description	Mid-pool identifier for the HS pool policy
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

allocation-percent *decimal-number*

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number*
Description	Specifies the percentage of the root-pool with which it is associated, as specified by root-parent will be available to this mid-pool.
Range	0.01 to 100.00
Introduced	16.0.R1

parent-root-pool

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number*
Description	Enter the parent-root-pool context
Introduced	16.0.R1

none

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number* **parent-root-pool**
Description	Specifies none mid-pool is associated with this parent-pool.
Introduced	16.0.R1
Notes	This element is part of a choice

pool-id *string*

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number* **parent-root-pool**
Description	Specifies the parent root to which this mid-pool is associated.
Reference	configure **qos hs-pool-policy** *string* **root-tier root-pool** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

port-bw-oversubscription-factor *number*

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number*
Description	Specifies the factor by which port bandwidth can be over subscribed.
Range	1 to 10
Default	1
Introduced	16.0.R1

slope-policy *string*

Context	**configure qos hs-pool-policy** *string* **mid-tier mid-pool** *number*
Description	Specifies the slope policy associated with this pool policy.
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

root-tier

Context	**configure qos hs-pool-policy** *string*
Description	Enter the root-tier context
Introduced	16.0.R1

root-pool [root-pool-id] *number*

Context	**configure qos hs-pool-policy** *string* **root-tier**
Description	Enter the root-pool context
Introduced	16.0.R1

[root-pool-id] *number*

Context	**configure qos hs-pool-policy** *string* **root-tier root-pool** *number*
Description	Root pool identifier for the HS pool policy
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

allocation-weight *number*

Context	**configure qos hs-pool-policy** *string* **root-tier root-pool** *number*
Description	Specifies the weight that will be applied to the first root pool and is divided by the sum of all root pool weights to derive the pool's buffer allocation factor.
Range	0 to 100
Introduced	16.0.R1

slope-policy *string*

Context	**configure qos hs-pool-policy** *string* **root-tier root-pool** *number*
Description	Specifies the slope policy associated with this pool policy.
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

system-reserve *decimal-number*

Context	**configure qos hs-pool-policy** *string*
Description	Percentage of HS buffers reserved for internal system use
Range	1.00 to 30.00
Default	5.00
Introduced	16.0.R1

hs-port-pool-policy [name] *string*

Context	**configure qos**
Description	Enter the hs-port-pool-policy context
Max. Elements	2047
Introduced	16.0.R1

[name] *string*

Context	**configure qos hs-port-pool-policy** *string*
Description	Name for HS port pool policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

alt-port-class-pools

Context	**configure qos hs-port-pool-policy** *string*
Description	Enter the alt-port-class-pools context
Introduced	16.0.R1

class-pool [alt-class-pool-id] *number*

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools**
Description	Enter the class-pool context
Introduced	16.0.R1

[alt-class-pool-id] *number*

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number*
Description	The alt-port-class-pool identifier for the HS port pool policy.
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a list key

allocation

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number*
Description	Enter the allocation context
Introduced	16.0.R1

explicit-percent *decimal-number*

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number* **allocation**
Description	Specifies the percentage of parent pool to be allocated.
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

port-bw-weight *number*

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number* **allocation**
Description	Specifies the port share weight.
Range	1 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

parent-mid-pool

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number*
Description	Enter the parent-mid-pool context
Introduced	16.0.R1

none

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number* **parent-mid-pool**
Description	Specifies none mid-pool is associated with this parent-pool.
Introduced	16.0.R1
Notes	This element is part of a choice

pool-id *number*

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number* **parent-mid-pool**
Description	Specifies the mid-pool parent.
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a choice

slope-policy *string*

Context	**configure qos hs-port-pool-policy** *string* **alt-port-class-pools class-pool** *number*
Description	Specifies the slope policy associated with this pool policy.
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

description *string*

Context	**configure qos hs-port-pool-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

std-port-class-pools

Context	**configure qos hs-port-pool-policy** *string*
Description	Enter the std-port-class-pools context
Introduced	16.0.R1

class-pool [std-class-pool-id] *number*

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools**
Description	Enter the class-pool context
Introduced	16.0.R1

[std-class-pool-id] *number*

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number*
Description	Standard port class identifier for the HS port pool policy
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a list key

allocation

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number*
Description	Enter the allocation context
Introduced	16.0.R1

explicit-percent *decimal-number*

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number* **allocation**
Description	Specifies the percentage of parent pool to be allocated.
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

port-bw-weight *number*

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number* **allocation**
Description	Specifies the port share weight.
Range	1 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

parent-mid-pool

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number*
Description	Enter the parent-mid-pool context
Introduced	16.0.R1

none

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number* **parent-mid-pool**
Description	Specifies none mid-pool is associated with this parent-pool.
Introduced	16.0.R1
Notes	This element is part of a choice

pool-id *number*

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number* **parent-mid-pool**
Description	Specifies the mid-pool parent.
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a choice

slope-policy *string*

Context	**configure qos hs-port-pool-policy** *string* **std-port-class-pools class-pool** *number*
Description	Specifies the slope policy associated with this pool policy.
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

hs-scheduler-policy [name] *string*

Context	**configure qos**
Description	Enter the hs-scheduler-policy context
Max. Elements	127
Introduced	16.0.R1

[name] *string*

Context	**configure qos hs-scheduler-policy** *string*
Description	HS scheduler policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos hs-scheduler-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

group [group-id] *number*

Context	**configure qos hs-scheduler-policy** *string*
Description	Enter the group context
Introduced	16.0.R1

[group-id] *number*

Context	**configure qos hs-scheduler-policy** *string* **group** *number*
Description	Group ID for the HS scheduler policy
Range	1
Introduced	16.0.R1
Notes	This element is part of a list key

rate (*number* | *keyword*)

Context	**configure qos hs-scheduler-policy** *string* **group** *number*
Description	Group maximum rate
Range	1 to 100000
Default	max
Units	megabps
Options	max
Introduced	16.0.R1

max-rate (*number* | *keyword*)

Context	**configure qos hs-scheduler-policy** *string*
Description	Maximum rate for this HS scheduler policy
Range	1 to 100000
Default	max
Options	max
Introduced	16.0.R1

scheduling-class [class-id] *number*

Context	**configure qos hs-scheduler-policy** *string*
Description	Enter the scheduling-class context
Introduced	16.0.R1

[class-id] *number*

Context	**configure qos hs-scheduler-policy** *string* **scheduling-class** *number*
Description	Class identifier for the HS scheduler policy scheduling class
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a list key

group

Context	**configure qos hs-scheduler-policy** *string* **scheduling-class** *number*
Description	Enter the **group** context
Introduced	16.0.R1

group-id *number*

Context	**configure qos hs-scheduler-policy** *string* **scheduling-class** *number* **group**
Description	Associated group associated with this scheduling class
Range	1
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

weight *number*

Context	**configure qos hs-scheduler-policy** *string* **scheduling-class** *number* **group**
Description	Weight associated with this scheduling class
Range	1 to 127
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure qos hs-scheduler-policy** *string* **scheduling-class** *number*
Description	Group maximum rate
Range	1 to 100000
Default	max
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-pool-policy [hsmda-pool-policy-name] *string*

Context	**configure qos**
Description	Enter the hsmda-pool-policy context
Introduced	16.0.R1

[hsmda-pool-policy-name] *string*

Context	**configure qos hsmda-pool-policy** *string*
Description	The name of the HSMDA Pool Policy.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

class-tier

Context	**configure qos hsmda-pool-policy** *string*
Description	Enter the class-tier context
Introduced	16.0.R1

class-pool [class-pool-id] *number*

Context	**configure qos hsmda-pool-policy** *string* **class-tier**
Description	Enter the class-pool context
Introduced	16.0.R1

[class-pool-id] *number*

Context	**configure qos hsmda-pool-policy** *string* **class-tier class-pool** *number*
Description	Class pool for the HSMDA pool policy
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

allocation-percent *decimal-number*

Context	**configure qos hsmda-pool-policy** *string* **class-tier class-pool** *number*
Description	Specifies the percentage of the root-pool with which it is associated, as specified by root-parent will be available to this class-pool.
Range	0.01 to 100.00
Introduced	16.0.R1

root-parent *string*

Context	**configure qos hsmda-pool-policy** *string* **class-tier class-pool** *number*
Description	Specifies the parent root to which this class-pool is associated.
Reference	configure **qos hsmda-pool-policy** *string* **root-tier root-pool** *number*
Introduced	16.0.R1

description *string*

Context	**configure qos hsmda-pool-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

root-tier

Context	**configure qos hsmda-pool-policy** *string*
Description	Enter the root-tier context
Introduced	16.0.R1

root-pool [root-pool-id] *number*

Context	**configure qos hsmda-pool-policy** *string* **root-tier**
Description	Enter the root-pool context
Introduced	16.0.R1

[root-pool-id] *number*

Context	**configure qos hsmda-pool-policy** *string* **root-tier root-pool** *number*
Description	Root pool identifier for the HSMDA pool policy
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

allocation-weight *number*

Context	**configure qos hsmda-pool-policy** *string* **root-tier root-pool** *number*
Description	Specifies the weight that will be applied to the first root pool and is divided by the sum of all root pool weights to derive the pool's buffer allocation factor.
Range	0 to 100
Introduced	16.0.R1

system-reserve *decimal-number*

Context	**configure qos hsmda-pool-policy** *string*
Description	Specifies the percentage of HSMDA buffers reserved for internal system use.
Range	1.00 to 30.00
Default	10.00
Introduced	16.0.R1

hsmda-scheduler-policy [hsmda-scheduler-policy-name] *string*

Context	**configure qos**
Description	Enter the hsmda-scheduler-policy context
Introduced	16.0.R1

[hsmda-scheduler-policy-name] *string*

Context	**configure qos hsmda-scheduler-policy** *string*
Description	The name of the HSMDA scheduler policy.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

burst-limit (*number* | *keyword*)

Context	**configure qos hsmda-scheduler-policy** *string*
Description	Explicit shaping burst size of a queue
Range	1 to 327680
Default	auto
Options	auto
Introduced	16.0.R1

description *string*

Context	**configure qos hsmda-scheduler-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

group [group-id] *number*

Context	**configure qos hsmda-scheduler-policy** *string*
Description	Enter the group context
Introduced	16.0.R1

[group-id] *number*

Context	**configure qos hsmda-scheduler-policy** *string* **group** *number*
Description	Group ID for the HSMDA scheduler policy
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

burst-limit (*number* | *keyword*)

Context	**configure qos hsmda-scheduler-policy** *string* **group** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 327680
Default	auto
Options	auto
Introduced	16.0.R1

rate (*number* | *keyword*)

Context	**configure qos hsmda-scheduler-policy** *string* **group** *number*
Description	Specifies the group maximum rate.
Range	1 to 100000
Default	max
Units	megabps
Options	max
Introduced	16.0.R1

max-rate (*number* | *keyword*)

Context	**configure qos hsmda-scheduler-policy** *string*
Description	Specifies the maximum rate for this HSMDA scheduler policy.
Range	1 to 100000
Default	max
Units	megabps
Options	max
Introduced	16.0.R1

scheduling-class [class-id] *number*

Context	**configure qos hsmda-scheduler-policy** *string*
Description	Enter the scheduling-class context
Introduced	16.0.R1

[class-id] *number*

Context	**configure qos hsmda-scheduler-policy** *string* **scheduling-class** *number*
Description	Class identifier for the HSMDA scheduler policy scheduling class
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

burst-limit (*number* | *keyword*)

Context	**configure qos hsmda-scheduler-policy** *string* **scheduling-class** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 327680
Default	auto
Options	auto
Introduced	16.0.R1
Notes	This element is part of a choice

group

Context	**configure qos hsmda-scheduler-policy** *string* **scheduling-class** *number*
Description	Enter the **group** context
Introduced	16.0.R1

group-id *number*

Context	**configure qos hsmda-scheduler-policy** *string* **scheduling-class** *number* **group**
Description	Specifies the group associated with this scheduling class.
Range	1 to 2
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

weight *number*

Context	**configure qos hsmda-scheduler-policy** *string* **scheduling-class** *number* **group**
Description	Specifies the weight in group associated with this scheduling class.
Range	1 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure qos hsmda-scheduler-policy** *string* **scheduling-class** *number*
Description	Specifies the scheduling class maximum rate.
Range	1 to 100000
Default	max
Units	megabps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-slope-policy [hsmda-slope-policy-name] *string*

Context	**configure qos**
Description	Enter the hsmda-slope-policy context
Introduced	16.0.R1

[hsmda-slope-policy-name] *string*

Context	**configure qos hsmda-slope-policy** *string*
Description	HSMDA slope policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos hsmda-slope-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

high-slope

Context	**configure qos hsmda-slope-policy** *string*
Description	Enter the high-slope context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure qos hsmda-slope-policy** *string* **high-slope**
Description	Administrative state of the high priority RED slope
Default	enable
Options	enable, disable
Introduced	16.0.R1

max-depth *decimal-number*

Context	**configure qos hsmda-slope-policy** *string* **high-slope**
Description	Buffer percentage after which the drop probability reaches maximum average
Range	0.01 to 100.00
Default	100.00
Introduced	16.0.R1

max-prob *decimal-number*

Context	**configure qos hsmda-slope-policy** *string* **high-slope**
Description	Drop probability when the HSMDA queue depth reaches maximum depth
Range	0.01 to 100.00
Default	100.00
Introduced	16.0.R1

start-depth *decimal-number*

Context	**configure qos hsmda-slope-policy** *string* **high-slope**
Description	Buffer percentage after which the drop probability starts to rise above value
Range	0.01 to 100.00
Default	100.00
Introduced	16.0.R1

low-slope

Context	**configure qos hsmda-slope-policy** *string*
Description	Enter the low-slope context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure qos hsmda-slope-policy** *string* **low-slope**
Description	Administrative state of the low priority RED slope
Default	enable
Options	enable, disable
Introduced	16.0.R1

max-depth *decimal-number*

Context	**configure qos hsmda-slope-policy** *string* **low-slope**
Description	Buffer percentage after which the drop probability reaches maximum average
Range	0.01 to 100.00
Default	90.00
Introduced	16.0.R1

max-prob *decimal-number*

Context	**configure qos hsmda-slope-policy** *string* **low-slope**
Description	Drop probability when the HSMDA queue depth reaches maximum depth
Range	0.01 to 100.00
Default	100.00
Introduced	16.0.R1

start-depth *decimal-number*

Context	**configure qos hsmda-slope-policy** *string* **low-slope**
Description	Buffer percentage after which the drop probability starts to rise above value
Range	0.01 to 100.00
Default	90.00
Introduced	16.0.R1

hsmda-wrr-policy [hsmda-wrr-policy-name] *string*

Context	**configure qos**
Description	Enter the hsmda-wrr-policy context
Introduced	16.0.R1

[hsmda-wrr-policy-name] *string*

Context	**configure qos hsmda-wrr-policy** *string*
Description	HSMDA WRR policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

class-agg-weight *number*

Context	**configure qos hsmda-wrr-policy** *string*
Description	Weight assigned to the group of queues specified within the HSMDA scheduler
Range	1 | 2 | 4 | 8
Default	1
Introduced	16.0.R1

description *string*

Context	**configure qos hsmda-wrr-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

include-queues *keyword*

Context	**configure qos hsmda-wrr-policy** *string*
Description	Queues to include includes into the HSMDA WRR scheduling loop policy
Default	1-2
Options	1-2, 1-3
Introduced	16.0.R1

schedule-using-class *number*

Context	**configure qos hsmda-wrr-policy** *string*
Description	Class to schedule the queues specified within the HSMDA scheduler
Range	1 to 3
Default	1
Introduced	16.0.R1

match-list

Context	**configure qos**
Description	Enter the match-list context
Introduced	16.0.R1

ip-prefix-list [prefix-list-name] *string*

Context	**configure qos match-list**
Description	Enter the ip-prefix-list context
Max. Elements	512
Introduced	16.0.R1

[prefix-list-name] *string*

Context	**configure qos match-list ip-prefix-list** *string*
Description	Specifies the name given to this prefix list.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

description *string*

Context	**configure qos match-list ip-prefix-list** *string*
Description	The description of ip-prefix-list.
String Length	1 to 80
Introduced	16.0.R4

prefix [ip-prefix] *ipv4-prefix*

Context	**configure qos match-list ip-prefix-list** *string*
Description	Enter the prefix context
Max. Elements	256
Introduced	16.0.R1

[ip-prefix] *ipv4-prefix*

Context	**configure qos match-list ip-prefix-list** *string* **prefix** *ipv4-prefix*
Description	Specifies the IPv4 prefix for this prefix list.
Introduced	16.0.R3
Notes	This element is part of a list key

ipv6-prefix-list [prefix-list-name] *string*

Context	**configure qos match-list**
Description	Enter the ipv6-prefix-list context
Max. Elements	128
Introduced	16.0.R4

[prefix-list-name] *string*

Context	**configure qos match-list ipv6-prefix-list** *string*
Description	Specifies the name given to this prefix list.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

description *string*

Context	**configure qos match-list ipv6-prefix-list** *string*
Description	The description of ipv6-prefix-list.
String Length	1 to 80
Introduced	16.0.R4

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure qos match-list ipv6-prefix-list** *string*
Description	Enter the prefix context
Max. Elements	128
Introduced	16.0.R4

[ipv6-prefix] *ipv6-prefix*

Context	**configure qos match-list ipv6-prefix-list** *string* **prefix** *ipv6-prefix*
Description	Specifies the IPv6 prefix for this prefix list.
Introduced	16.0.R4
Notes	This element is part of a list key

mc-fr-profile-egress [mc-fr-egress-prof-index] *number*

Context	**configure qos**
Description	Enter the mc-fr-profile-egress context
Max. Elements	128
Introduced	16.0.R1

[mc-fr-egress-prof-index] *number*

Context	**configure qos mc-fr-profile-egress** *number*
Description	Egress MultiClass Frame Relay Profile Index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

class [class-id] *number*

Context	**configure qos mc-fr-profile-egress** *number*
Description	Enter the class context
Introduced	16.0.R1

[class-id] *number*

Context	**configure qos mc-fr-profile-egress** *number* **class** *number*
Description	Frame-relay egress class per multi-class frame-relay egress profile
Range	0 to 3
Introduced	16.0.R1
Notes	This element is part of a list key

max-queue-size *number*

Context	**configure qos mc-fr-profile-egress** *number* **class** *number*
Description	Buffer queue size
Range	1 to 1000
Introduced	16.0.R1

mir *number*

Context	**configure qos mc-fr-profile-egress** *number* **class** *number*
Description	Minimum information rate (MIR) as percentage
Range	1 to 100
Introduced	16.0.R1

weight *number*

Context	**configure qos mc-fr-profile-egress** *number* **class** *number*
Description	Weight of this multiclass class as a percentage
Range	1 to 100
Introduced	16.0.R1

description *string*

Context	**configure qos mc-fr-profile-egress** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

mc-fr-profile-ingress [mc-fr-ingress-prof-index] *number*

Context	**configure qos**
Description	Enter the mc-fr-profile-ingress context
Max. Elements	128
Introduced	16.0.R1

[mc-fr-ingress-prof-index] *number*

Context	**configure qos mc-fr-profile-ingress** *number*
Description	Index of the ingress MultiClass Frame Relay profile
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

class [class-id] *number*

Context	**configure qos mc-fr-profile-ingress** *number*
Description	Enter the class context
Introduced	16.0.R1

[class-id] *number*

Context	**configure qos mc-fr-profile-ingress** *number* **class** *number*
Description	Frame-relay ingress class per multi-class frame-relay ingress profile
Range	0 to 3
Introduced	16.0.R1
Notes	This element is part of a list key

reassembly-timeout *number*

Context	**configure qos mc-fr-profile-ingress** *number* **class** *number*
Description	Reassembly timeout for a specific frame-relay multi-class ingress class
Range	1 to 1000
Introduced	16.0.R1

description *string*

Context	**configure qos mc-fr-profile-ingress** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

md-auto-id

Context	**configure qos**
Description	Enter the md-auto-id context
Introduced	16.0.R1

qos-policy-id-range

Context	**configure qos md-auto-id**
Description	Enter the qos-policy-id-range context
Introduced	16.0.R1

end *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos md-auto-id qos-policy-id-range**
Description	Upper value of the ID range, must be greater than or equal to start value
Range	2 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

start *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos md-auto-id qos-policy-id-range**
Description	Lower value of the ID range, must be less than or equal to end value
Range	2 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

mlppp-profile-egress [mc-mlppp-egress-prof-index] *number*

Context	**configure qos**
Description	Enter the mlppp-profile-egress context
Max. Elements	128
Introduced	16.0.R1

[mc-mlppp-egress-prof-index] *number*

Context	**configure qos mlppp-profile-egress** *number*
Description	Index of the egress MultiClass MLPPP profile
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

class [class-id] *number*

Context	**configure qos mlppp-profile-egress** *number*
Description	Enter the class context
Introduced	16.0.R1

[class-id] *number*

Context	**configure qos mlppp-profile-egress** *number* **class** *number*
Description	Policy class
Range	0 to 3
Introduced	16.0.R1
Notes	This element is part of a list key

max-queue-size *number*

Context	**configure qos mlppp-profile-egress** *number* **class** *number*
Description	Buffer queue size
Range	1 to 1000
Introduced	16.0.R1

mir *number*

Context	**configure qos mlppp-profile-egress** *number* **class** *number*
Description	Minimum information rate (MIR) as percentage
Range	1 to 100
Introduced	16.0.R1

weight *number*

Context	**configure qos mlppp-profile-egress** *number* **class** *number*
Description	Weight of this multiclass class as a percentage
Range	1 to 100
Introduced	16.0.R1

description *string*

Context	**configure qos mlppp-profile-egress** *number*
Description	Text description
String Length	0 to 80
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure qos mlppp-profile-egress** *number*
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure qos mlppp-profile-egress** *number* **fc** *keyword*
Description	Forwarding class name
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

mlppp-class *number*

Context	**configure qos mlppp-profile-egress** *number* **fc** *keyword*
Description	Mapping of the system forwarding class to the MLPPP classes
Range	0 to 3
Introduced	16.0.R1

mlppp-profile-ingress [mc-mlppp-ingress-prof-index] *number*

Context	**configure qos**
Description	Enter the mlppp-profile-ingress context
Max. Elements	128
Introduced	16.0.R1

[mc-mlppp-ingress-prof-index] *number*

Context	**configure qos mlppp-profile-ingress** *number*
Description	Index of the ingress MultiClass MLPPP profile
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

class [class-id] *number*

Context	**configure qos mlppp-profile-ingress** *number*
Description	Enter the class context
Introduced	16.0.R1

[class-id] *number*

Context	**configure qos mlppp-profile-ingress** *number* **class** *number*
Description	Policy class
Range	0 to 3
Introduced	16.0.R1
Notes	This element is part of a list key

reassembly-timeout *number*

Context	**configure qos mlppp-profile-ingress** *number* **class** *number*
Description	Reassembly timeout for this policy
Range	1 to 1000
Introduced	16.0.R1

description *string*

Context	**configure qos mlppp-profile-ingress** *number*
Description	Text description
String Length	0 to 80
Introduced	16.0.R1

named-pool-policy [named-pool-policy-name] *string*

Context	**configure qos**
Description	Enter the named-pool-policy context
Introduced	16.0.R1

[named-pool-policy-name] *string*

Context	**configure qos named-pool-policy** *string*
Description	Named Pool policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos named-pool-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

pool [q1-named-pool-name] *string*

Context	**configure qos named-pool-policy** *string*
Description	Enter the pool context
Introduced	16.0.R1

[q1-named-pool-name] *string*

Context	**configure qos named-pool-policy** *string* **pool** *string*
Description	Q1 Named Pool policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

amber-alarm-threshold *number*

Context	**configure qos named-pool-policy** *string* **pool** *string*
Description	Threshold for the amber alarm on an allowed oversubscription
Range	1 to 1000
Introduced	16.0.R1

application-weights

Context	**configure qos named-pool-policy** *string* **pool** *string*
Description	Enter the application-weights context
Introduced	16.0.R1

access-allocation-weight *number*

Context	**configure qos named-pool-policy** *string* **pool** *string* **application-weights**
Description	Weight to divide access associated buffer space between named pools
Range	0 to 100
Default	50
Introduced	16.0.R1

network-allocation-weight *number*

Context	**configure qos named-pool-policy** *string* **pool** *string* **application-weights**
Description	Weight to divide network associated buffer space between named pools
Range	0 to 100
Default	50
Introduced	16.0.R1

description *string*

Context	**configure qos named-pool-policy** *string* **pool** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

red-alarm-threshold *number*

Context	**configure qos named-pool-policy** *string* **pool** *string*
Description	Threshold for the red alarm on an allowed oversubscription
Range	1 to 1000
Introduced	16.0.R1

resv-cbs

Context **configure qos named-pool-policy** *string* **pool** *string*

Description Enter the resv-cbs context

Introduced 16.0.R1

amber-alarm-action

Context **configure qos named-pool-policy** *string* **pool** *string* **resv-cbs**

Description Enter the amber-alarm-action context

Introduced 16.0.R1

max *number*

Context **configure qos named-pool-policy** *string* **pool** *string* **resv-cbs amber-alarm-action**

Description Maximum percentage for reserved CBS size of pool

Range 1 to 100

Introduced 16.0.R1

step *number*

Context **configure qos named-pool-policy** *string* **pool** *string* **resv-cbs amber-alarm-action**

Description Step-size percentage for reserved CBS of pool

Range 1 to 100

Introduced 16.0.R1

cbs *number*

Context **configure qos named-pool-policy** *string* **pool** *string* **resv-cbs**

Description Reserved CBS size of the pool

Range 0 to 100

Default 30

Units percent

Introduced 16.0.R1

slope-policy *string*

Context	**configure qos named-pool-policy** *string* **pool** *string*
Description	Slope policy name
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

port-allocation-weights

Context	**configure qos named-pool-policy** *string*
Description	Enter the port-allocation-weights context
Introduced	16.0.R1

default *number*

Context	**configure qos named-pool-policy** *string* **port-allocation-weights**
Description	Allocation weight for default pools
Range	0 to 100
Default	50
Introduced	16.0.R1

mda *number*

Context	**configure qos named-pool-policy** *string* **port-allocation-weights**
Description	Port allocation weight for MDA named pools
Range	0 to 100
Default	50
Introduced	16.0.R1

port *number*

Context	**configure qos named-pool-policy** *string* **port-allocation-weights**
Description	Named pool to create or edit within the policy
Range	0 to 100
Default	50
Introduced	16.0.R1

network [network-policy-name] *network-policy-name*

Context	**configure qos**
Description	Enter the network context
Max. Elements	255
Introduced	16.0.R1

[network-policy-name] *network-policy-name*

Context	**configure qos network** *network-policy-name*
Description	Name of this network QoS policy
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos network** *network-policy-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress

Context	**configure qos network** *network-policy-name*
Description	Enter the egress context
Introduced	16.0.R1

dscp [dscp-name] *keyword*

Context	**configure qos network** *network-policy-name* **egress**
Description	Enter the dscp context
Introduced	16.0.R1

[dscp-name] *keyword*

Context	**configure qos network** *network-policy-name* **egress dscp** *keyword*
Description	Specifies the Differentiated Services Code Point (DSCP) name for which mapping is done.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos network** *network-policy-name* **egress dscp** *keyword*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is mandatory

profile *keyword*

Context	**configure qos network** *network-policy-name* **egress dscp** *keyword*
Description	Default profile to use for the ingressing traffic
Options	in, out, exceed, inplus
Introduced	16.0.R1
Notes	This element is mandatory

fc [fc-name] *keyword*

Context	**configure qos network** *network-policy-name* **egress**
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	Forwarding class name
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

de-mark

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	Enter the de-mark context
Introduced	16.0.R1

force *number*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword* **de-mark**
Description	DE value
Range	0 to 1
Introduced	16.0.R1

dot1p-in-profile *number*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	Dot1p marking for in-profile marking
Range	0 to 7
Introduced	16.0.R1

dot1p-out-profile *number*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	Dot1p marking for out-of-profile marking
Range	0 to 7
Introduced	16.0.R1

dscp-in-profile *keyword*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	DSCP marking for in-profile marking
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dscp-out-profile *keyword*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	DSCP marking for out-of-profile marking
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

lsp-exp-in-profile *number*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	LSP-EXP marking for in-profile marking
Range	0 to 7
Introduced	16.0.R1

lsp-exp-out-profile *number*

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	LSP-EXP marking for out-of-profile marking
Range	0 to 7
Introduced	16.0.R1

port-redirect-group

Context	**configure qos network** *network-policy-name* **egress fc** *keyword*
Description	Enter the port-redirect-group context
Introduced	16.0.R1

policer *number*

Context **configure qos network** *network-policy-name* **egress fc** *keyword* **port-redirect-group**
Description Policer to be used
Range 1 to 8
Introduced 16.0.R1

queue *number*

Context **configure qos network** *network-policy-name* **egress fc** *keyword* **port-redirect-group**
Description Queue to be used
Range 1 to 8
Introduced 16.0.R1

ip-criteria

Context **configure qos network** *network-policy-name* **egress**
Description Enter the ip-criteria context
Introduced 16.0.R1

entry [entry-id] *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria**
Description Enter the entry context
Introduced 16.0.R1

[entry-id] *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number*
Description Network Egress IP Criteria Entry Index.
Range 1 to 65535
Introduced 16.0.R1
Notes This element is part of a list key

action

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number*

Description Enter the action context

Introduced 16.0.R1

fc *keyword*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **action**

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

port-redirect-group

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **action**

Description Enter the port-redirect-group context

Introduced 16.0.R1

policer *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **action port-redirect-group**

Description Specifies the policer identifier to be used for the matched traffic.

Range 1 to 8

Introduced 16.0.R1

queue *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **action port-redirect-group**

Description Specifies the queue to use once the matched traffic has been policed.

Range 1 to 8

Introduced 16.0.R1

profile *keyword*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **action**
Description	Specifies the default profile to be used for the matching traffic.
Options	in, out, exceed, inplus
Introduced	16.0.R1

type *keyword*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **action**
Description	Specified whether the criteria entry is active or in-active.
Default	ignore-match
Options	ignore-match, accept
Introduced	16.0.R1

description *string*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	DSCP value to match in the packet
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dst-ip

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-ip**
Description	IP address to match with destination IP of the packet.
Introduced	16.0.R1
Notes	This element is part of a choice

mask *ipv4-address*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-ip**
Description	IP address to match with source IP of the packet.
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	Enter the dst-port context
Introduced	16.0.R1

eq *number*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-port**
Description	Value 'equal to' assigned as match condition
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-port**

Description Value 'less than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match dst-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

fragment *keyword*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	Matches when the packet is a fragment (true) or when the packet is not a fragment (false) or matches all packets fragmented or not (off).
Options	false, true
Introduced	16.0.R1

icmp-type *number*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	ICMP type to match.
Range	0 to 255
Introduced	16.0.R1

protocol (*number* | *keyword*)

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	IP protocol to match
Introduced	16.0.R1

src-ip

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**
Description	Enter the src-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet.

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet.

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-port**

Description Value 'equal to' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-port**
Description	Value 'less than' assigned as match condition
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **egress ip-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-criteria

Context	**configure qos network** *network-policy-name* **egress**
Description	Enter the ipv6-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria**

Description Enter the entry context

Introduced 16.0.R1

[entry-id] *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number*

Description Network Egress IPv6 Criteria Entry Index.

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a list key

action

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number*

Description Enter the action context

Introduced 16.0.R1

fc *keyword*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **action**

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

port-redirect-group

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **action**

Description Enter the port-redirect-group context

Introduced 16.0.R1

policer *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **action port-redirect-group**

Description Specifies the policer identifier to be used for the matched traffic.

Range 1 to 8

Introduced 16.0.R1

queue *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **action port-redirect-group**

Description Specifies the queue to use once the matched traffic has been policed.

Range 1 to 8

Introduced 16.0.R1

profile *keyword*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **action**

Description Specifies the default profile to be used for the matching traffic.

Options in, out, exceed, inplus

Introduced 16.0.R1

type *keyword*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **action**

Description Specified whether the criteria entry is active or in-active.

Default ignore-match

Options ignore-match, accept

Introduced 16.0.R1

description *string*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**

Description DSCP value to match in the packet

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R1

dst-ip

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**

Description Enter the dst-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-ip**

Description IP address to match with destination IP of the packet.

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-ip**

Description IP address to match with source IP of the packet.

Introduced 16.0.R1

Notes This element is part of a choice

dst-port

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-port**

Description Value 'equal to' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-port**

Description Value 'less than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match dst-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

fragment *keyword*

Context	**configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**
Description	Matches when the packet is a fragment (true) or when the packet is not a fragment (false) or matches all packets fragmented or not (off).
Options	false, true, first-only, non-first-only
Introduced	16.0.R1

icmp-type *number*

Context	**configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**
Description	ICMP type to match.
Range	0 to 255
Introduced	16.0.R1

next-header (*number* | *keyword*)

Context	**configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**
Description	IP protocol to match
Introduced	16.0.R1

src-ip

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet.

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet.

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-port**

Description Value 'equal to' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-port**

Description Value 'less than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **egress ipv6-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

prec [prec-value] *number*

Context	**configure qos network** *network-policy-name* **egress**
Description	Enter the prec context
Introduced	16.0.R1

[prec-value] *number*

Context	**configure qos network** *network-policy-name* **egress prec** *number*
Description	Precedence value for which mapping is performed
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos network** *network-policy-name* **egress prec** *number*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is mandatory

profile *keyword*

Context	**configure qos network** *network-policy-name* **egress prec** *number*
Description	Default profile to use for the ingressing traffic
Options	in, out, exceed, inplus
Introduced	16.0.R1
Notes	This element is mandatory

remark-trusted

Context **configure qos network** *network-policy-name* **egress**

Description Enter the remark-trusted context

Introduced 16.0.R1

force-egress-marking *boolean*

Context **configure qos network** *network-policy-name* **egress remark-trusted**

Description Remark DSCP bits in the internal IP header

Default false

Introduced 16.0.R1

ingress

Context **configure qos network** *network-policy-name*

Description Enter the ingress context

Introduced 16.0.R1

default-action

Context **configure qos network** *network-policy-name* **ingress**

Description Enter the default-action context

Introduced 16.0.R1

fc *keyword*

Context **configure qos network** *network-policy-name* **ingress default-action**

Description Default forwarding class to use while classifying the ingress traffic

Default be

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

profile *keyword*

Context	**configure qos network** *network-policy-name* **ingress default-action**
Description	Default profile for the ingressing traffic
Default	out
Options	in, out
Introduced	16.0.R1

dot1p [dot1p-value] *number*

Context	**configure qos network** *network-policy-name* **ingress**
Description	Enter the dot1p context
Introduced	16.0.R1

[dot1p-value] *number*

Context	**configure qos network** *network-policy-name* **ingress dot1p** *number*
Description	Dot1p value to match in the packet
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos network** *network-policy-name* **ingress dot1p** *number*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is mandatory

profile *keyword*

Context	**configure qos network** *network-policy-name* **ingress dot1p** *number*
Description	Default profile to be used for the ingressing traffic
Options	in, out, de
Introduced	16.0.R1
Notes	This element is mandatory

dscp [dscp-name] *keyword*

Context	**configure qos network** *network-policy-name* **ingress**
Description	Enter the dscp context
Introduced	16.0.R1

[dscp-name] *keyword*

Context	**configure qos network** *network-policy-name* **ingress dscp** *keyword*
Description	Specifies the Differentiated Services Code Point (DSCP) name for which mapping is done.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos network** *network-policy-name* **ingress dscp** *keyword*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is mandatory

profile *keyword*

Context	**configure qos network** *network-policy-name* **ingress dscp** *keyword*
Description	Default profile to use for the ingressing traffic
Options	in, out
Introduced	16.0.R1
Notes	This element is mandatory

fc [fc-name] *keyword*

Context	**configure qos network** *network-policy-name* **ingress**
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure qos network** *network-policy-name* **ingress fc** *keyword*
Description	Forwarding class name
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

fp-redirect-group

Context	**configure qos network** *network-policy-name* **ingress fc** *keyword*
Description	Enter the fp-redirect-group context
Introduced	16.0.R1

broadcast-policer *number*

Context	**configure qos network** *network-policy-name* **ingress fc** *keyword* **fp-redirect-group**
Description	Policer to be used for broadcast traffic
Range	1 to 32
Introduced	16.0.R1

multicast-policer *number*

Context	**configure qos network** *network-policy-name* **ingress fc** *keyword* **fp-redirect-group**
Description	Policer to be used for multicast traffic
Range	1 to 32
Introduced	16.0.R1

policer *number*

Context	**configure qos network** *network-policy-name* **ingress fc** *keyword* **fp-redirect-group**
Description	Policer to be used for unicast traffic
Range	1 to 32
Introduced	16.0.R1

unknown-policer *number*

Context	**configure qos network** *network-policy-name* **ingress fc** *keyword* **fp-redirect-group**
Description	Plicer to be used for unknown traffic
Range	1 to 32
Introduced	16.0.R1

ip-criteria

Context	**configure qos network** *network-policy-name* **ingress**
Description	Enter the ip-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number*
Description	Network Ingress IP Criteria Entry Index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number*
Description	Enter the action context
Introduced	16.0.R1

fc *keyword*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **action**

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

profile *keyword*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **action**

Description Default profile for the matching traffic

Options in, out

Introduced 16.0.R1

type *keyword*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **action**

Description Specified whether the criteria entry is active or in-active.

Default ignore-match

Options ignore-match, accept

Introduced 16.0.R1

description *string*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**
Description	DSCP value to match in the packet.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dst-ip

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-ip**
Description	IP address to match with destination IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

ip-prefix-list *string*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-ip**
Description	Specifies ip-prefix-list used as match criterion.
Reference	configure **qos match-list ip-prefix-list** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

mask *ipv4-address*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-ip**
Description	IP address to match with source IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-port**

Description Specifies the equal than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-port**

Description Specifies the greater than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-port**

Description Specifies the less than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match dst-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

fragment *keyword*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**
Description	Matches when the packet is a fragment (true) or when the packet is not a fragment (false) or matches all packets fragmented or not (off)
Options	false, true
Introduced	16.0.R1

protocol (*number* | *keyword*)

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**
Description	IP protocol to match
Introduced	16.0.R1

src-ip

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**
Description	Enter the src-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-ip**

Description Specifies ip-prefix-list used as match criterion.

Reference configure **qos match-list ip-prefix-list** *string*

Introduced 16.0.R4

Notes This element is part of a choice

mask *ipv4-address*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-port**

Description Specifies the equal than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-port**

Description Specifies the greater than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-port**

Description Specifies the less than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **ingress ip-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-criteria

Context	**configure qos network** *network-policy-name* **ingress**
Description	Enter the ipv6-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number*
Description	Network Ingress IPv6 Criteria Entry Index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number*
Description	Enter the action context
Introduced	16.0.R1

fc *keyword*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **action**

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

profile *keyword*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **action**

Description Default profile for the matching traffic

Options in, out

Introduced 16.0.R1

type *keyword*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **action**

Description Specified whether the criteria entry is active or in-active.

Default ignore-match

Options ignore-match, accept

Introduced 16.0.R1

description *string*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**
Description	DSCP value to match in the packet
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dst-ip

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-ip**
Description	IP address to match with destination IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-prefix-list *string*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-ip**
Description	Specifies the ip-prefix-list used as match criterion for the ip address.
Reference	configure **qos match-list ipv6-prefix-list** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

mask *ipv6-address*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-ip**
Description	IP address to match with source IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-port**

Description Specifies the equal than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-port**

Description Specifies the greater than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-port**

Description Specifies the less than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match dst-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

fragment *keyword*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**
Description	Matches when the packet is a fragment (true) or when the packet is not a fragment (false) or matches all packets fragmented or not (off)
Options	false, true, first-only, non-first-only
Introduced	16.0.R1

next-header (*number* | *keyword*)

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**
Description	IP protocol to match
Introduced	16.0.R1

src-ip

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**
Description	Enter the src-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

ipv6-prefix-list *string*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-ip**

Description Specifies the ip-prefix-list used as match criterion for the ip address.

Reference configure **qos match-list ipv6-prefix-list** *string*

Introduced 16.0.R4

Notes This element is part of a choice

mask *ipv6-address*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-port**

Description Specifies the equal than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-port**

Description Specifies the greater than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-port**

Description Specifies the less than value as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos network** *network-policy-name* **ingress ipv6-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

ler-use-dscp *boolean*

Context	**configure qos network** *network-policy-name* **ingress**
Description	Honor the DSCP markings instead of the LSP-EXP bits
Default	false
Introduced	16.0.R1

lsp-exp [lsp-exp-value] *number*

Context	**configure qos network** *network-policy-name* **ingress**
Description	Enter the lsp-exp context
Introduced	16.0.R1

[lsp-exp-value] *number*

Context	**configure qos network** *network-policy-name* **ingress lsp-exp** *number*
Description	Value to assign the unique MPLS LSP EXP value that will match the lsp-exp rule
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos network** *network-policy-name* **ingress lsp-exp** *number*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is mandatory

profile *keyword*

Context	**configure qos network** *network-policy-name* **ingress lsp-exp** *number*
Description	Default profile to use for the ingressing traffic
Options	in, out
Introduced	16.0.R1
Notes	This element is mandatory

policy-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos network** *network-policy-name*
Description	Network QoS policy identifier.
Range	1 to 65535
Introduced	16.0.R1

scope *keyword*

Context	**configure qos network** *network-policy-name*
Description	Scope of the policy
Default	template
Options	exclusive, template
Introduced	16.0.R1

network-queue [network-queue-policy] *string*

Context	**configure qos**
Description	Enter the network-queue context
Max. Elements	255
Introduced	16.0.R1

[network-queue-policy] *string*

Context	**configure qos network-queue** *string*
Description	Name for network queue policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos network-queue** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-hsmda

Context	**configure qos network-queue** *string*
Description	Enter the egress-hsmda context
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos network-queue** *string* **egress-hsmda**
Description	Packet byte offset to use for the HSMDA egress queues
Range	-64 to 31
Default	0
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos network-queue** *string* **egress-hsmda**
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	Egress HSMDA queue ID
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

pir *keyword*

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

burst-limit (*number* | *keyword*)

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 1000000
Default	auto
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	Percentage of buffer space allowed for the queue
Range	0 to 2688000
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

percent-rate *decimal-number*

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	PIR percentage rate
Range	0.01 to 100.00
Default	100.00
Introduced	16.0.R1

slope-policy *string*

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	Slop policy name to override the default slope policy for the named buffer pool
Reference	configure **qos hsmda-slope-policy** *string*
Introduced	16.0.R1

wrr-weight *number*

Context	**configure qos network-queue** *string* **egress-hsmda queue** *number*
Description	Weight value for the HSMDA queue
Range	1 to 32
Default	1
Introduced	16.0.R1

wrr-policy *string*

Context	**configure qos network-queue** *string* **egress-hsmda**
Description	WRR policy to use on this HSMDA egress queue
Reference	configure **qos hsmda-wrr-policy** *string*
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure qos network-queue** *string*
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure qos network-queue** *string* **fc** *keyword*
Description	Forwarding class name
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

egress-hsmda

Context	**configure qos network-queue** *string* **fc** *keyword*
Description	Enter the egress-hsmda context
Introduced	16.0.R1

queue *number*

Context	**configure qos network-queue** *string* **fc** *keyword* **egress-hsmda**
Description	Egress HSDMA queue for packets in this forwarding class
Range	1 to 8
Introduced	16.0.R1

multicast-queue *string*

Context	**configure qos network-queue** *string* **fc** *keyword*
Description	Multicast queue for packets in this forwarding class
Reference	configure **qos network-queue** *string* **queue** *number*
Introduced	16.0.R1

queue *string*

Context	**configure qos network-queue** *string* **fc** *keyword*
Description	Queue for packets in this forwarding class
Reference	configure **qos network-queue** *string* **queue** *number*
Introduced	16.0.R1

hs-attachment-policy *string*

Context	**configure qos network-queue** *string*
Description	HS attachment policy applied
Reference	configure **qos hs-attachment-policy** *string*
Introduced	16.0.R1

hs-wrr-group [group-id] *number*

Context	**configure qos network-queue** *string*
Description	Enter the hs-wrr-group context
Introduced	16.0.R1

[group-id] *number*

Context	**configure qos network-queue** *string* **hs-wrr-group** *number*
Description	HS WRR group identifier
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure qos network-queue** *string* **hs-wrr-group** *number*

Description Enter the adaptation-rule context

Introduced 16.0.R1

pir *keyword*

Context **configure qos network-queue** *string* **hs-wrr-group** *number* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Default closest

Options max, min, closest

Introduced 16.0.R1

hs-class-weight *number*

Context **configure qos network-queue** *string* **hs-wrr-group** *number*

Description Weight of scheduling class

Range 1 | 2 | 4 | 8

Default 1

Introduced 16.0.R1

rate *number*

Context **configure qos network-queue** *string* **hs-wrr-group** *number*

Description PIR rate

Range 1 to 100

Default 100

Introduced 16.0.R1

queue [queue-id] *number*

Context **configure qos network-queue** *string*

Description Enter the queue context

Introduced 16.0.R1

[queue-id] *number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	HSMDA queue for packets in this forwarding class
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos network-queue** *string* **queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos network-queue** *string* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

fir *keyword*

Context	**configure qos network-queue** *string* **queue** *number* **adaptation-rule**
Description	The adaptation rule to be used while computing the operational FIR value. The adaptation rule specifies the rules to compute the operational values while maintaining minimum offset.
Default	closest
Options	max, min, closest
Introduced	16.0.R3

pir *keyword*

Context	**configure qos network-queue** *string* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

avg-frame-overhead *decimal-number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Encapsulation overhead to translate the packet based rate to frame based rate and vice versa
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R1

cbs *decimal-number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Reserved buffer space for the queue
Range	0.00 to 100.00
Introduced	16.0.R1

drop-tail

Context	**configure qos network-queue** *string* **queue** *number*
Description	Enter the drop-tail context
Introduced	16.0.R1

low

Context	**configure qos network-queue** *string* **queue** *number* **drop-tail**
Description	Enter the low context
Introduced	16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context	**configure qos network-queue** *string* **queue** *number* **drop-tail low**
Description	Low drop-tail percent from MBS that is reduced
Introduced	16.0.R1

hs-alt-port-class-pool *boolean*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Use HS alternate class port pool buffer for traffic
Default	false
Introduced	16.0.R1

hs-class-weight *number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Scheduling class weight
Range	1 | 2 | 4 | 8
Default	1
Introduced	16.0.R1

hs-mbs *decimal-number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Percentage of buffer space allowed for the HS queue
Range	0.00 to 100.00
Default	100.00
Introduced	16.0.R1

hs-wred-queue

Context	**configure qos network-queue** *string* **queue** *number*
Description	Enter the hs-wred-queue context
Introduced	16.0.R1

policy *string*

Context	**configure qos network-queue** *string* **queue** *number* **hs-wred-queue**
Description	Slope policy name
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

hs-wrr-weight *number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Weighted Round Robin (WRR) weight to parent with this queue into the scheduler
Range	1 to 127
Default	1
Introduced	16.0.R1

mbs *decimal-number*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Percentage of buffer space allowed for the queue
Range	0.00 to 100.00
Introduced	16.0.R1

multipoint *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos network-queue** *string* **queue** *number*
Description	Apply as a multicast queue
Introduced	16.0.R1

pool *string*

Context	**configure qos network-queue** *string* **queue** *number*
Description	Pool name for network queue
String Length	1 to 32
Introduced	16.0.R1

port-parent

Context	**configure qos network-queue** *string* **queue** *number*
Description	Enter the port-parent context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos network-queue** *string* **queue** *number* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 8
Default	0
Introduced	16.0.R1

cir-weight *number*

Context	**configure qos network-queue** *string* **queue** *number* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	0
Introduced	16.0.R1

level *number*

Context	**configure qos network-queue** *string* **queue** *number* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	1 to 8
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure qos network-queue** *string* **queue** *number* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	1
Introduced	16.0.R1

queue-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos network-queue** *string* **queue** *number*
Description	Priority that this queue receives from the hardware level schedulers
Default	auto-expedited
Options	expedited, auto-expedited, best-effort
Introduced	16.0.R1

rate

Context	**configure qos network-queue** *string* **queue** *number*
Description	Enter the rate context
Introduced	16.0.R1

cir *number*

Context	**configure qos network-queue** *string* **queue** *number* **rate**
Description	CIR percentage rate
Range	0 to 100
Units	percent
Introduced	16.0.R1

fir *number*

Context	**configure qos network-queue** *string* **queue** *number* **rate**
Description	Specifies the FIR percentage rate.
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R3

pir *number*

Context	**configure qos network-queue** *string* **queue** *number* **rate**
Description	PIR percentage rate
Range	1 to 100
Default	100
Units	percent
Introduced	16.0.R1

policer-control-policy [policer-control-policy-name] *string*

Context	**configure qos**
Description	Enter the policer-control-policy context
Max. Elements	2047
Introduced	16.0.R1

[policer-control-policy-name] *string*

Context	**configure qos policer-control-policy** *string*
Description	Name of Policer Control Policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos policer-control-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

root

Context	**configure qos policer-control-policy** *string*
Description	Enter the root context
Introduced	16.0.R1

max-rate (*number* | *keyword*)

Context	**configure qos policer-control-policy** *string* **root**
Description	Maximum frame based bandwidth limit of this policer
Range	1 to 2000000000
Default	max
Options	max
Introduced	16.0.R1

priority-mbs-thresholds

Context	**configure qos policer-control-policy** *string* **root**
Description	Enter the priority-mbs-thresholds context
Introduced	16.0.R1

min-thresh-separation (*number* | *keyword*)

Context	**configure qos policer-control-policy** *string* **root priority-mbs-thresholds**
Description	Minimum amount of separation buffer space
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

priority [priority-level] *number*

Context	**configure qos policer-control-policy** *string* **root priority-mbs-thresholds**
Description	Enter the priority context
Introduced	16.0.R1

[priority-level] *number*

Context	**configure qos policer-control-policy** *string* **root priority-mbs-thresholds priority** *number*
Description	Priority level
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

fixed-mbs *boolean*

Context	**configure qos policer-control-policy** *string* **root priority-mbs-thresholds priority** *number*
Description	Consider cumulative buffer space to be fixed
Default	false
Introduced	16.0.R1

mbs-contribution (*number* | *keyword*)

Context	**configure qos policer-control-policy** *string* **root priority-mbs-thresholds priority** *number*
Description	Minimum amount of cumulative buffer space
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

profile-preferred *boolean*

Context	**configure qos policer-control-policy** *string* **root**
Description	Provide a preference to consume PIR bucket tokens at a given priority level
Default	false
Introduced	16.0.R1

tier [tier-id] *number*

Context	**configure qos policer-control-policy** *string*
Description	Enter the tier context
Introduced	16.0.R1

[tier-id] *number*

Context	**configure qos policer-control-policy** *string* **tier** *number*
Description	Tier for policer control policer arbiter
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

arbiter [arbiter-name] *string*

Context	**configure qos policer-control-policy** *string* **tier** *number*
Description	Enter the arbiter context
Introduced	16.0.R1

[arbiter-name] *string*

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string*
Description	Arbiter name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

arbiter-parent

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string*
Description	Enter the arbiter-parent context
Introduced	16.0.R3

arbiter-name *string*

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string* **arbiter-parent**
Description	Specifies the arbiter to which this policer is feeding to.
String Length	0 to 255
Introduced	16.0.R3

level *number*

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string* **arbiter-parent**
Description	Specifies the level of priority while feeding to the parent.
Range	1 to 8
Default	1
Introduced	16.0.R3

weight *number*

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string* **arbiter-parent**
Description	Specifies the weight that needs to be used by the arbiter to which this policer is feeding to.
Range	1 to 100
Default	1
Introduced	16.0.R3

description *string*

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

rate (*number* | *keyword*)

Context	**configure qos policer-control-policy** *string* **tier** *number* **arbiter** *string*
Description	Maximum frame based bandwidth limit
Range	1 to 2000000000
Default	max
Options	max
Introduced	16.0.R1

port-scheduler-policy [name] *string*

Context	**configure qos**
Description	Enter the port-scheduler-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure qos port-scheduler-policy** *string*
Description	Name of this port scheduler policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos port-scheduler-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dist-lag-rate-shared *boolean*

Context	**configure qos port-scheduler-policy** *string*
Description	Share rates when the port is part of a LAG configured in distribute mode
Default	false
Introduced	16.0.R1

group [group-name] *string*

Context	**configure qos port-scheduler-policy** *string*
Description	Enter the group context
Introduced	16.0.R1

[group-name] *string*

Context	**configure qos port-scheduler-policy** *string* **group** *string*
Description	Name of this port scheduler policy group
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

monitor-threshold *number*

Context	**configure qos port-scheduler-policy** *string* **group** *string*
Description	Specifies the threshold level that should be monitored. It is percentage of the max-rate or max-rate-percent
Range	0 to 100
Default	0
Introduced	16.0.R1

percent-rate

Context	**configure qos port-scheduler-policy** *string* **group** *string*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure qos port-scheduler-policy** *string* **group** *string* **percent-rate**
Description	Administrative CIR percent
Range	0.00 to 100.00
Default	100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure qos port-scheduler-policy** *string* **group** *string* **percent-rate**
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure qos port-scheduler-policy** *string* **group** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos port-scheduler-policy** *string* **group** *string* **rate**
Description	Administrative CIR
Range	0 to 3200000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos port-scheduler-policy** *string* **group** *string* **rate**
Description	Administrative PIR
Range	1 to 3200000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

level [level-id] *number*

Context	**configure qos port-scheduler-policy** *string*
Description	Enter the level context
Introduced	16.0.R1

[level-id] *number*

Context	**configure qos port-scheduler-policy** *string* **level** *number*
Description	Priority level this port scheduler policy
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

group *string*

Context	**configure qos port-scheduler-policy** *string* **level** *number*
Description	Associated group
Reference	configure **qos port-scheduler-policy** *string* **group** *string*
Introduced	16.0.R1

monitor-threshold *number*

Context	**configure qos port-scheduler-policy** *string* **level** *number*
Description	Specifies the threshold level that should be monitored. It is percentage of the max-rate or max-rate-percent
Range	0 to 100
Default	0
Introduced	16.0.R1

percent-rate

Context	**configure qos port-scheduler-policy** *string* **level** *number*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure qos port-scheduler-policy** *string* **level** *number* **percent-rate**
Description	Administrative CIR percent
Range	0.00 to 100.00
Default	100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure qos port-scheduler-policy** *string* **level** *number* **percent-rate**
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure qos port-scheduler-policy** *string* **level** *number*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos port-scheduler-policy** *string* **level** *number* **rate**
Description	Administrative CIR
Range	0 to 3200000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos port-scheduler-policy** *string* **level** *number* **rate**
Description	Administrative PIR
Range	1 to 3200000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

weight *number*

Context	**configure qos port-scheduler-policy** *string* **level** *number*
Description	Specifies the weight associated with the group
Range	1 to 100
Default	1
Introduced	16.0.R1

max-percent-rate *decimal-number*

Context	**configure qos port-scheduler-policy** *string*
Description	Specifies the explicit maximum frame based bandwidth percentage
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

max-rate (*number* | *keyword*)

Context	**configure qos port-scheduler-policy** *string*
Description	Explicit maximum frame based bandwidth limit
Range	1 to 3200000000
Default	max
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

monitor-threshold *number*

Context	**configure qos port-scheduler-policy** *string*
Description	Specifies the threshold level that should be monitored. It is a percentage of the max-rate or max-rate-percent
Range	0 to 100
Default	0
Introduced	16.0.R1

orphan-overrides

Context	**configure qos port-scheduler-policy** *string*
Description	Enter the orphan-overrides context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos port-scheduler-policy** *string* **orphan-overrides**
Description	Specifies the port priority of orphaned queues and scheduler that are within-cir
Range	0 to 8
Default	0
Introduced	16.0.R1

cir-weight *number*

Context	**configure qos port-scheduler-policy** *string* **orphan-overrides**
Description	Specifies the weight of orphaned queues and scheduler that are within-cir
Range	0 to 100
Default	0
Introduced	16.0.R1

level *number*

Context	**configure qos port-scheduler-policy** *string* **orphan-overrides**
Description	Specifies the port priority of orphaned queues and scheduler that are above-cir
Range	1 to 8
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure qos port-scheduler-policy** *string* **orphan-overrides**
Description	Specifies the weight of orphaned queues and scheduler that are above-cir
Range	0 to 100
Default	0
Introduced	16.0.R1

post-policer-mapping [name] *string*

Context	**configure qos**
Description	Enter the post-policer-mapping context
Max. Elements	7
Introduced	16.0.R1

[name] *string*

Context	**configure qos post-policer-mapping** *string*
Description	Name of post policer mapping policy.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos post-policer-mapping** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fc [fc-name] *keyword* **profile** *keyword*

Context	**configure qos post-policer-mapping** *string*
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure qos post-policer-mapping** *string* **fc** *keyword* **profile** *keyword*
Description	Name of forwarding class to be remapped
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

profile *keyword*

Context	**configure qos post-policer-mapping** *string* **fc** *keyword* **profile** *keyword*
Description	Packet Profile that needs to be remapped.
Options	in, out, exceed, inplus
Introduced	16.0.R1
Notes	This element is part of a list key

maps-to

Context	**configure qos post-policer-mapping** *string* **fc** *keyword* **profile** *keyword*
Description	Enter the maps-to context
Introduced	16.0.R1

fc *keyword*

Context **configure qos post-policer-mapping** *string* **fc** *keyword* **profile** *keyword* **maps-to**

Description Name of forwarding class to be remapped

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

profile *keyword*

Context **configure qos post-policer-mapping** *string* **fc** *keyword* **profile** *keyword* **maps-to**

Description Packet Profile that needs to be remapped.

Options in, out, exceed, inplus

Introduced 16.0.R1

queue-group-redirect-list [name] *string*

Context **configure qos**

Description Enter the queue-group-redirect-list context

Max. Elements 2047

Introduced 16.0.R1

[name] *string*

Context **configure qos queue-group-redirect-list** *string*

Description Name of queue-group redirect list.

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

match [field-value] *number*

Context **configure qos queue-group-redirect-list** *string*

Description Enter the match context

Max. Elements 16

Introduced 16.0.R1

[field-value] *number*

Context	**configure qos queue-group-redirect-list** *string* **match** *number*
Description	Specifies the value of the field in the ingress or egress packet which, when matched, will redirect the packet to the queue-group instance
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a list key

instance *number*

Context	**configure qos queue-group-redirect-list** *string* **match** *number*
Description	Specifies the queue-group instance to which packet will be forwarded.
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

type *keyword*

Context	**configure qos queue-group-redirect-list** *string*
Description	Type for queue-group redirect list
Default	vxlan-vni
Options	vxlan-vni
Introduced	16.0.R1

queue-group-templates

Context	**configure qos**
Description	Enter the queue-group-templates context
Introduced	16.0.R1

egress

Context	**configure qos queue-group-templates**
Description	Enter the egress context
Introduced	16.0.R1

queue-group [egress-queue-group-name] *string*

Context **configure qos queue-group-templates egress**
Description Enter the queue-group context
Introduced 16.0.R1

[egress-queue-group-name] *string*

Context **configure qos queue-group-templates egress queue-group** *string*
Description Name of Egress Queue Group
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a list key

description *string*

Context **configure qos queue-group-templates egress queue-group** *string*
Description Text description
String Length 0 to 80
Introduced 16.0.R1

fc [fc-name] *keyword*

Context **configure qos queue-group-templates egress queue-group** *string*
Description Enter the fc context
Introduced 16.0.R1

[fc-name] *keyword*

Context **configure qos queue-group-templates egress queue-group** *string* **fc** *keyword*
Description Forwarding class name
Options be, l2, af, l1, h2, ef, h1, nc
Introduced 16.0.R1
Notes This element is part of a list key

queue

Context **configure qos queue-group-templates egress queue-group** *string* **fc** *keyword*
Description Enter the queue context
Introduced 16.0.R1

none

Context **configure qos queue-group-templates egress queue-group** *string* **fc** *keyword* **queue**
Description No mid-pool is associated with this parent-pool
Introduced 16.0.R1
Notes This element is part of a choice

queue-id *string*

Context **configure qos queue-group-templates egress queue-group** *string* **fc** *keyword* **queue**
Description Queue defined in forwarding class mapping
Reference configure **qos queue-group-templates egress queue-group** *string* **queue** *number*
Introduced 16.0.R1
Notes This element is part of a choice

hs-attachment-policy *string*

Context **configure qos queue-group-templates egress queue-group** *string*
Description HS attachment policy applied
Reference configure **qos hs-attachment-policy** *string*
Introduced 16.0.R1

hs-wrr-group [group-id] *number*

Context **configure qos queue-group-templates egress queue-group** *string*
Description Enter the hs-wrr-group context
Introduced 16.0.R1

[group-id] *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hs-wrr-group** *number*
Description	HS WRR group identifier
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos queue-group-templates egress queue-group** *string* **hs-wrr-group** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

pir *keyword*

Context	**configure qos queue-group-templates egress queue-group** *string* **hs-wrr-group** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

hs-class-weight *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hs-wrr-group** *number*
Description	Weight of scheduling class
Range	1 | 2 | 4 | 8
Default	1
Introduced	16.0.R1

percent-rate *decimal-number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hs-wrr-group** *number*
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **hs-wrr-group** *number*
Description	Administrative PIR
Range	1 to 2000000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-queues

Context	**configure qos queue-group-templates egress queue-group** *string*
Description	Enter the hsmda-queues context
Introduced	16.0.R1

low-burst-max-class *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues**
Description	Specifies which class should use the low priority burst threshold. Use the low priority burst threshold for all classes starting from 1, up to and including that specified by this value. Use the high priority burst threshold for all classes greater than the this value, up to and including class 8.
Range	1 to 8
Default	8
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues**
Description	Packet byte offset to use for the HSMDA egress queues
Range	-64 to 31
Default	0
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues**
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	Egress HSMDA queue ID
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

pir *keyword*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

burst-limit (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 1000000
Default	auto
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	Buffer space allowed for the queue
Units	bytes
Introduced	16.0.R1

rate (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	PIR rate
Default	max
Introduced	16.0.R1

slope-policy *string*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	Name of the slope policy which overrides the default policy for the named buffer pool
Reference	configure **qos hsmda-slope-policy** *string*
Introduced	16.0.R1

wrr-weight *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues queue** *number*
Description	Weight value for the HSMDA queue
Range	1 to 32
Default	1
Introduced	16.0.R1

wrr-policy *string*

Context	**configure qos queue-group-templates egress queue-group** *string* **hsmda-queues**
Description	WRR policy to use on this HSMDA egress queue
Reference	configure **qos hsmda-wrr-policy** *string*
Introduced	16.0.R1

policer [policer-id] *number*

Context	**configure qos queue-group-templates egress queue-group** *string*
Description	Enter the policer context
Introduced	16.0.R1

[policer-id] *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	Egress Queue-Group Policer identifier
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Default closest

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Default closest

Options max, min, closest

Introduced 16.0.R1

adv-config-policy *string*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number*

Description Name of the advanced configuration policy to apply with this queue

Reference configure **qos adv-config-policy** *string*

Introduced 16.0.R1

arbiter-parent

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number*

Description Enter the arbiter-parent context

Introduced 16.0.R1

arbiter-name *string*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **arbiter-parent**

Description Arbiter to which this policer feeds

String Length 1 to 32

Introduced 16.0.R1

level *number*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **arbiter-parent**

Description Level of priority while feeding to the parent

Range 1 to 8

Default 1

Introduced 16.0.R1

weight *number*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **arbiter-parent**

Description Weight to be used by the arbiter for feeding this policer

Range 1 to 100

Default 1

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number*

Description Exceed threshold of the CIR leaky bucket of this policer

Range 0 to 16777216

Default auto

Units bytes

Options auto

Introduced 16.0.R1

description *string*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

exceed-pir *boolean*

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	Allow forwarding of packets with an exceed-profile state and traffic exceeding the PIR
Default	false
Introduced	16.0.R1

high-prio-only (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	Percentage of PIR leaky bucket's MBS of this policer that is reserved for high priority traffic
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	High priority 'violate' threshold of PIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	Size of each packet, handled by the policer, to be modified
Range	-64 to 31
Default	0
Introduced	16.0.R1

profile-capped *boolean*

Context	**configure qos queue-group-templates egress queue-group** *string* **policer** *number*
Description	Enforce a limit on the profile
Default	false
Introduced	16.0.R1

rate

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **rate**

Description CIR

Default 0

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number* **rate**

Description CIR

Default max

Units kilobps

Introduced 16.0.R1

stat-mode *keyword*

Context **configure qos queue-group-templates egress queue-group** *string* **policer** *number*

Description Mode of statistics collected by the policer

Default minimal

Options no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile

Introduced 16.0.R1

queue [queue-id] *number*

Context **configure qos queue-group-templates egress queue-group** *string*

Description Enter the queue context

Introduced 16.0.R1

[queue-id] *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Egress Queue-Group queue identifier
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

adv-config-policy *string*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Name of the advanced configuration policy
Reference	configure **qos adv-config-policy** *string*
Introduced	16.0.R1

burst-limit (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Explicit shaping burst size of a queue

Range 1 to 14000000

Default auto

Options auto

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Reserved buffer space for the queue

Range 0 to 1048576

Default auto

Units kilobytes

Options auto

Introduced 16.0.R1

drop-tail

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Enter the drop-tail context

Introduced 16.0.R1

exceed

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail**

Description Enter the exceed context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail exceed**

Description Percentage of drop-tail that is reduced from MBS for exceed profile packets

Introduced 16.0.R1

high

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail**

Description Enter the high context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail high**

Description Percentage of drop-tail being that is reduced from MBS for high profile packets

Introduced 16.0.R1

highplus

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail**

Description Enter the highplus context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail highplus**

Description Percentage of drop-tail being that is reduced from MBS for high plus profile packets

Introduced 16.0.R1

low

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **drop-tail low**

Description Low drop-tail percent from MBS that is reduced

Introduced 16.0.R1

dynamic-mbs *boolean*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Allow modifying of the MBS size for a queue to maintain maximum latency for traffic

Default false

Introduced 16.0.R1

hs-alt-port-class-pool *boolean*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Use HS alternate class port pool buffer for traffic

Default false

Introduced 16.0.R1

hs-class-weight *number*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Scheduling class weight

Range 1 | 2 | 4 | 8

Default 1

Introduced 16.0.R1

hs-wred-queue

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Enter the hs-wred-queue context

Introduced 16.0.R1

policy *string*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **hs-wred-queue**

Description Slope policy name

Reference configure **qos slope-policy** *string*

Introduced 16.0.R1

hs-wrr-weight *number*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Weighted Round Robin (WRR) weight to parent with this queue into the scheduler

Range 1 to 127

Default 1

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Buffer space allowed for the queue

Range 0 to 1073741824

Default auto

Units bytes

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Packet byte offset for addition of policing information

Range -64 to 31

Default 0

Introduced 16.0.R1

percent-rate

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **percent-rate**

Description Administrative CIR percent

Range 0.00 to 100.00

Default 0.00

Introduced 16.0.R1

Notes This element is part of a choice

pir *decimal-number*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **percent-rate**

Description Administrative PIR percent

Range 0.01 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

pool *string*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Pool name

String Length 1 to 32

Introduced 16.0.R1

port-parent

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Enter the **port-parent** context

Introduced 16.0.R1

cir-level *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 8
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	1 to 8
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

weight *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

queue-delay *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Target queue delay for forwarding packets through this queue
Range	1 to 5000
Units	milliseconds
Introduced	16.0.R1

queue-type *keyword*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Priority that this queue receives from the hardware level schedulers
Options	expedited, best-effort
Introduced	16.0.R1

rate

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **rate**
Description	Administrative CIR
Default	0
Units	kilobps
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **rate**
Description	Administrative PIR
Default	max
Units	kilobps
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-parent

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number*
Description	Enter the **scheduler-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	0 to 8
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **scheduler-parent**
Description	Weight that is used by the scheduler until the committed rate for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-name *string*

Context	**configure qos queue-group-templates egress queue-group** *string* **queue** *number* **scheduler-parent**
Description	Scheduler to which this queue feeds
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

weight *number*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **scheduler-parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Default 1

Introduced 16.0.R1

Notes This element is part of a choice

wred-queue

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number*

Description Enter the wred-queue context

Introduced 16.0.R1

mode *keyword*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **wred-queue**

Description Generic pool association of the queue to allow queue-specific WRED slopes

Options native, pool-per-queue

Introduced 16.0.R1

policy *string*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **wred-queue**

Description Slope policy name

Reference configure **qos slope-policy** *string*

Introduced 16.0.R1

usage *keyword*

Context **configure qos queue-group-templates egress queue-group** *string* **queue** *number* **wred-queue**

Description Specifies which slopes are active for given slope-mode

Options auto, exceed-low

Introduced 16.0.R1

queues-hqos-manageable *boolean*

Context	**configure qos queue-group-templates egress queue-group** *string*
Description	Manage queues through the Hierarchical QoS process
Default	true
Introduced	16.0.R1

ingress

Context	**configure qos queue-group-templates**
Description	Enter the ingress context
Introduced	16.0.R1

queue-group [ingress-queue-group-name] *string*

Context	**configure qos queue-group-templates ingress**
Description	Enter the queue-group context
Introduced	16.0.R1

[ingress-queue-group-name] *string*

Context	**configure qos queue-group-templates ingress queue-group** *string*
Description	Name of Ingress Queue Group
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos queue-group-templates ingress queue-group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

policer [policer-id] *number*

Context	**configure qos queue-group-templates ingress queue-group** *string*
Description	Enter the policer context
Introduced	16.0.R1

[policer-id] *number*

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	Ingress Queue-Group Policer identifier
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

adv-config-policy *string*

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number*

Description Name of the advanced configuration policy to apply with this queue

Reference configure **qos adv-config-policy** *string*

Introduced 16.0.R1

arbiter-parent

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number*

Description Enter the arbiter-parent context

Introduced 16.0.R1

arbiter-name *string*

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **arbiter-parent**

Description Arbiter to which this policer feeds

String Length 1 to 32

Introduced 16.0.R1

level *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **arbiter-parent**

Description Level of priority while feeding to the parent

Range 1 to 8

Default 1

Introduced 16.0.R1

weight *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **arbiter-parent**

Description Weight to be used by the arbiter for feeding this policer

Range 1 to 100

Default 1

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	Exceed threshold of the CIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

description *string*

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

high-prio-only (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	Percentage of PIR leaky bucket's MBS of this policer that is reserved for high priority traffic
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	High priority 'violate' threshold of PIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number*

Description Size of each packet, handled by the policer, to be modified

Range -32 to 31

Default 0

Introduced 16.0.R1

profile-capped *boolean*

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number*

Description Enforce a limit on the profile

Default false

Introduced 16.0.R1

rate

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **rate**

Description CIR

Default 0

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure qos queue-group-templates ingress queue-group** *string* **policer** *number* **rate**

Description CIR

Default max

Units kilobps

Introduced 16.0.R1

stat-mode *keyword*

Context	**configure qos queue-group-templates ingress queue-group** *string* **policer** *number*
Description	Mode of statistics collected by the policer
Default	minimal
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos queue-group-templates ingress queue-group** *string*
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Ingress Queue-Group Queue identifier
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

fir *keyword*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **adaptation-rule**

Description The adaptation rule to be used while computing the operational FIR value. The adaptation rule specifies the rules to compute the operational values while maintaining minimum offset.

Default closest

Options max, min, closest

Introduced 16.0.R3

pir *keyword*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **adaptation-rule**

Description Adaptation rule to apply when assigning the operational PIR value

Default closest

Options max, min, closest

Introduced 16.0.R1

adv-config-policy *string*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number*

Description Name of the advanced configuration policy to apply with this queue

Reference configure **qos adv-config-policy** *string*

Introduced 16.0.R1

burst-limit (*number* | *keyword*)

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number*

Description Explicit shaping burst size of a queue

Range 1 to 14000000

Default auto

Options auto

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number*

Description Reserved buffer space for the queue

Range 0 to 1048576

Default auto

Units kilobytes

Options auto

Introduced 16.0.R1

cir-non-profiling *boolean*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number*

Description Specifies that the CIR affect the scheduling priority of a queue but does not modify the profile of packets depending on the specified CIR.

Default false

Introduced 16.0.R3

drop-tail

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **drop-tail low**

Description Low drop-tail percent from MBS that is reduced

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Maximum buffer space that is allowed for queue
Range	0 to 1073741824
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

multipoint *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Create an ingress multipoint queue
Default	false
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Value of the adjustment on the size of each packet for queue accounting
Range	-32 to 31
Default	0
Introduced	16.0.R1

pool *string*

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Pool name to apply for SAP ingress queue
String Length	1 to 32
Introduced	16.0.R1

queue-mode *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Specifies the mode in which the queue is operating. This attribute is associated with the queue at the time of creation and cannot be modified thereafter.
Default	priority
Options	priority, profile
Introduced	16.0.R1

queue-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Priority that this queue receives from the hardware level schedulers
Default	best-effort
Options	expedited, best-effort
Introduced	16.0.R1

rate

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Enter the rate context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **rate**
Description	Specifies administrative CIR.
Default	0
Units	kilobps
Introduced	16.0.R3
Notes	This element is part of a choice

fir (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **rate**
Description	Specifies administrative FIR.
Default	0
Units	kilobps
Introduced	16.0.R3
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **rate**
Description	CIR
Default	max
Units	kilobps
Introduced	16.0.R1

police

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **rate**
Description	Specifies that the out of profile traffic feeding into the physical queue instance should be dropped
Introduced	16.0.R3
Notes	This element is part of a choice

scheduler-parent

Context	**configure qos queue-group-templates ingress queue-group** *string* **queue** *number*
Description	Enter the scheduler-parent context
Introduced	16.0.R1

cir-level *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **scheduler-parent**

Description Level of priority while feeding to the parent

Range 0 to 8

Default 0

Introduced 16.0.R1

cir-weight *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **scheduler-parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Default 1

Introduced 16.0.R1

level *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **scheduler-parent**

Description Level of priority while feeding to the parent

Range 1 to 8

Default 1

Introduced 16.0.R1

scheduler-name *string*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **scheduler-parent**

Description Scheduler to which this queue feeds

String Length 1 to 32

Introduced 16.0.R1

weight *number*

Context **configure qos queue-group-templates ingress queue-group** *string* **queue** *number* **scheduler-parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Default 1

Introduced 16.0.R1

sap-egress [sap-egress-policy-name] *qos-policy-name*

Context **configure qos**

Description Enter the sap-egress context

Introduced 16.0.R1

[sap-egress-policy-name] *qos-policy-name*

Context **configure qos sap-egress** *qos-policy-name*

Description Name of this sap-egress QoS policy

String Length 1 to 64

Introduced 16.0.R1

Notes This element is part of a list key

description *string*

Context **configure qos sap-egress** *qos-policy-name*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

dot1p [dot1p-value] *number*

Context **configure qos sap-egress** *qos-policy-name*

Description Enter the dot1p context

Introduced 16.0.R1

[dot1p-value] *number*

Context	**configure qos sap-egress** *qos-policy-name* **dot1p** *number*
Description	Dot1p value to match in the packet
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **dot1p** *number*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1

profile *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **dot1p** *number*
Description	Default profile for the ingressing traffic
Options	in, out, de, exceed, inplus
Introduced	16.0.R1

dscp [dscp-name] *keyword*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the dscp context
Introduced	16.0.R1

[dscp-name] *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **dscp** *keyword*
Description	Specifies the Differentiated Services Code Point (DSCP) name for which mapping is done.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context **configure qos sap-egress** *qos-policy-name* **dscp** *keyword*

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

hsmda-counter-override *number*

Context **configure qos sap-egress** *qos-policy-name* **dscp** *keyword*

Description Specifies the counter to use for all the traffic that matches the specific precedence. A value of zero implies that the default counters should be used.

Range 1 to 8

Introduced 16.0.R1

profile *keyword*

Context **configure qos sap-egress** *qos-policy-name* **dscp** *keyword*

Description Default profile for the ingressing traffic

Options in, out, exceed, inplus

Introduced 16.0.R1

ethernet-ctag *boolean*

Context **configure qos sap-egress** *qos-policy-name*

Description Tag value for dot1p and DE (Drop-Eligible) that are used by all dot1-p entries

Default false

Introduced 16.0.R1

fc [fc-name] *keyword*

Context **configure qos sap-egress** *qos-policy-name*

Description Enter the fc context

Introduced 16.0.R1

[fc-name] *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

de-mark

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the de-mark context
Introduced	16.0.R1

force *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **de-mark**
Description	DE value
Range	0 to 1
Introduced	16.0.R1

de-mark-inner

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the de-mark-inner context
Introduced	16.0.R1

force *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **de-mark-inner**
Description	DE value to set in inner VLAN tag
Range	0 to 1
Introduced	16.0.R1

de-mark-outer

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword*

Description Enter the de-mark-outer context

Introduced 16.0.R1

force *number*

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword* **de-mark-outer**

Description DE value to set in outer VLAN tag

Range 0 to 1

Introduced 16.0.R1

dot1p

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword*

Description Enter the dot1p context

Introduced 16.0.R1

exceed-profile *number*

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p**

Description Dot1p value for exceed-profile frames

Range 0 to 7

Introduced 16.0.R1

in-profile *number*

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p**

Description Dot1p value for in-profile frames

Range 0 to 7

Introduced 16.0.R1

out-profile *number*

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p**

Description Dot1p value for out-of-profile frames

Range 0 to 7

Introduced 16.0.R1

dot1p-inner

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword*

Description Enter the dot1p-inner context

Introduced 16.0.R1

in-profile *number*

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p-inner**

Description Inner Dot1p value for in-profile frames

Range 0 to 7

Introduced 16.0.R1

out-profile *number*

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p-inner**

Description Inner Dot1p value for out-of-profile frames

Range 0 to 7

Introduced 16.0.R1

dot1p-outer

Context **configure qos sap-egress** *qos-policy-name* **fc** *keyword*

Description Enter the dot1p-outer context

Introduced 16.0.R1

exceed-profile *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p-outer**
Description	Outer Dot1p value for exceed-profile frames
Range	0 to 7
Introduced	16.0.R1

in-profile *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p-outer**
Description	Outer Dot1p value for in-profile frames
Range	0 to 7
Introduced	16.0.R1

out-profile *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dot1p-outer**
Description	Outer Dot1p value for out-of-profile frames
Range	0 to 7
Introduced	16.0.R1

dscp

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the **dscp** context
Introduced	16.0.R1

exceed-profile *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dscp**
Description	DSCP name for exceed-profile frames
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a choice

in-profile *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dscp**
Description	DSCP name for in-profile frames
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a choice

out-profile *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **dscp**
Description	DSCP name for out-of-profile frames
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the hsmda context
Introduced	16.0.R1

port-redirect-group-queue

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **hsmda**
Description	Enter the **port-redirect-group-queue** context
Introduced	16.0.R1

queue *string*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **hsmda port-redirect-group-queue**
Description	HSMDA queue to which traffic is forwarded
Reference	configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

queue *string*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **hsmda**
Description	HSMDA queue to which traffic is forwarded
Reference	configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

policer *string*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Policer to forward the traffic
Reference	configure **qos sap-egress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1

port-redirect-group-queue

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the **port-redirect-group-queue** context
Introduced	16.0.R1

queue *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **port-redirect-group-queue**
Description	Queue to forward the traffic
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a choice

prec

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the **prec** context
Introduced	16.0.R1

exceed-profile *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **prec**
Description	Precedence for exceed-profile frames
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a choice

in-profile *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **prec**
Description	Precedence value for in-profile frames
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a choice

out-profile *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **prec**
Description	Precedence value for out-of-profile frames
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a choice

queue *string*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Queue to forward the traffic
Reference	configure **qos sap-egress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

queue-group-queue

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword*
Description	Enter the **queue-group-queue** context
Introduced	16.0.R1

instance *number*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **queue-group-queue**
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

queue *string*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **queue-group-queue**
Description	Specifies the queue to forward the traffic.
Reference	configure **qos queue-group-templates egress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

queue-group-name *string*

Context	**configure qos sap-egress** *qos-policy-name* **fc** *keyword* **queue-group-queue**
Description	Queue group to which the traffic is forwarded
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

hs-attachment-policy *string*

Context	**configure qos sap-egress** *qos-policy-name*
Description	HS attachment policy applied
Reference	configure **qos hs-attachment-policy** *string*
Introduced	16.0.R1

hs-wrr-group [group-id] *number*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the hs-wrr-group context
Introduced	16.0.R1

[group-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Description	HS WRR group identifier
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

pir *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **hs-wrr-group** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

hs-class-weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Description	Weight of scheduling class
Range	1 | 2 | 4 | 8
Default	1
Introduced	16.0.R1

percent-rate *decimal-number*

Context	**configure qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Description	Administrative PIR
Range	1 to 2000000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-queues

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the hsmda-queues context
Introduced	16.0.R1

low-burst-max-class *number*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues**
Description	Class that uses low priority burst threshold
Range	1 to 8
Default	8
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues**
Description	Packet byte offset to use for the HSMDA egress queues
Range	-64 to 31
Default	0
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues**
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	Egress HSMDA queue ID
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

pir *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

burst-limit (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 1000000
Default	auto
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	Buffer space allowed for the queue
Units	bytes
Introduced	16.0.R1

rate (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	PIR rate
Default	max
Introduced	16.0.R1

slope-policy *string*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	Name of the slope policy which overrides the default policy for the named buffer pool
Reference	configure **qos hsmda-slope-policy** *string*
Introduced	16.0.R1

wrr-weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Description	Weight value for the HSMDA queue
Range	1 to 32
Default	1
Introduced	16.0.R1

wrr-policy *string*

Context	**configure qos sap-egress** *qos-policy-name* **hsmda-queues**
Description	Weighted Round Robin (WRR) policy
Reference	configure **qos hsmda-wrr-policy** *string*
Introduced	16.0.R1

ip-criteria

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the ip-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number*
Description	IP Criteria Entry Index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number*
Description	Enter the action context
Introduced	16.0.R1

fc *keyword*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

hsmda-counter-override *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description HSMDA counter to use for matching packets

Range 1 to 8

Introduced 16.0.R1

policer *string*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Policer identifier for the matched traffic

Reference configure **qos sap-egress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

port-redirect-group-queue *boolean*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Use the queue specified in egress access port queue-group instance

Default false

Introduced 16.0.R1

profile *keyword*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Default profile for the matching traffic

Options in, out, exceed, inplus

Introduced 16.0.R1

queue *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Queue to use when the matched traffic is policed by the local policer

Introduced 16.0.R1

type *keyword*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Specified whether the criteria entry is active or in-active.

Default ignore-match

Options ignore-match, accept

Introduced 16.0.R1

use-fc-mapped-queue *boolean*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **action**

Description Redirect policer output to the configured queues

Default false

Introduced 16.0.R1

description *string*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description	DSCP value to match in the packet
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dst-ip

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-ip**
Description	IP address to match with source IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

ip-prefix-list *string*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-ip**
Description	Specifies ip-prefix-list used as match criterion.
Reference	configure **qos match-list ip-prefix-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

mask *ipv4-address*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-ip**
Description	IP address mask to match with source IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**

Description Value 'equal to' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**

Description Value 'greater than' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**

Description Value 'less than' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

fragment *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description	Matching criteria to be used for fragmented or non-fragmented packets
Options	false, true
Introduced	16.0.R1

protocol (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description	IP protocol to match
Introduced	16.0.R1

src-ip

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description	Enter the src-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-ip**

Description Specifies ip-prefix-list used as match criterion.

Reference configure **qos match-list ip-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-ip**

Description IP address mask to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Value 'equal to' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Value 'greater than' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Value 'less than' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos sap-egress** *qos-policy-name* **ip-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-criteria

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the ipv6-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number*
Description	IP Criteria Entry Index
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number*
Description	Enter the action context
Introduced	16.0.R1

fc *keyword*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**

Description Forwarding class

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

hsmda-counter-override *number*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**

Description HSMDA counter to use for matching packets

Range 1 to 8

Introduced 16.0.R1

policer *string*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**

Description Policer identifier for the matched traffic

Reference configure **qos sap-egress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

port-redirect-group-queue *boolean*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**

Description Use the queue specified in egress access port queue-group instance

Default false

Introduced 16.0.R1

profile *keyword*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**

Description Default profile for the matching traffic

Options in, out, exceed, inplus

Introduced 16.0.R1

queue *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**
Description	Queue to use when the matched traffic is policed by the local policer
Introduced	16.0.R1

type *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**
Description	Specified whether the criteria entry is active or in-active.
Default	ignore-match
Options	ignore-match, accept
Introduced	16.0.R1

use-fc-mapped-queue *boolean*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **action**
Description	Redirect policer output to the configured queues
Default	false
Introduced	16.0.R1

description *string*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match**
Description	DSCP value to match in the packet
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dst-ip

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match**
Description	Enter the dst-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-ip**
Description	IP address to match with destination IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

mask *ipv6-address*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-ip**
Description	IP address mask to match with destination IP of the packet
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match**
Description	Enter the dst-port context
Introduced	16.0.R1

eq *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**
Description	Value 'equal to' as match condition
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

gt *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**
Description	Value 'greater than' as match condition
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**
Description	Value 'less than' as match condition
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port range**

Description Start value of range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

next-header (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description IP protocol to match

Introduced 16.0.R1

src-ip

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-ip**

Description IP address mask to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Value 'equal to' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Value 'greater than' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Value 'less than' as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos sap-egress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

parent-location *keyword*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Location in which queues can find their parent scheduler in case the parent scheduler if not found
Default	auto
Options	auto, sla
Introduced	16.0.R1

policer [policer-id] *number*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the policer context
Introduced	16.0.R1

[policer-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Sap-Egress Policer identifier.
Range	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

adv-config-policy *string*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Name of the advanced configuration policy to apply with this queue
Reference	configure **qos adv-config-policy** *string*
Introduced	16.0.R1

arbiter-parent

Context **configure qos sap-egress** *qos-policy-name* **policer** *number*
Description Enter the arbiter-parent context
Introduced 16.0.R1

arbiter-name *string*

Context **configure qos sap-egress** *qos-policy-name* **policer** *number* **arbiter-parent**
Description Arbiter to which this policer feeds
String Length 1 to 32
Introduced 16.0.R1

level *number*

Context **configure qos sap-egress** *qos-policy-name* **policer** *number* **arbiter-parent**
Description Level of priority while feeding to the parent
Range 1 to 8
Default 1
Introduced 16.0.R1

weight *number*

Context **configure qos sap-egress** *qos-policy-name* **policer** *number* **arbiter-parent**
Description Weight to be used by the arbiter for feeding this policer
Range 1 to 100
Default 1
Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **policer** *number*
Description Exceed threshold of the CIR leaky bucket of this policer
Range 0 to 16777216
Default auto
Units bytes
Options auto
Introduced 16.0.R1

description *string*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dscp-prec-remarking *boolean*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Remark DSCP and precedence based on the profile state of a forwarding packet
Default	false
Introduced	16.0.R1

exceed-pir *boolean*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Allow forwarding of packets with an exceed-profile state and traffic exceeding the PIR
Default	false
Introduced	16.0.R1

high-prio-only (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Percentage of PIR leaky bucket's MBS of this policer that is reserved for high priority traffic
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	High priority 'violate' threshold of PIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Size of each packet, handled by the policer, to be modified
Range	-64 to 31
Default	0
Introduced	16.0.R1

percent-rate

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **percent-rate**
Description	Administrative CIR percent
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **percent-rate**
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

port-parent

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Enter the **port-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **port-parent**
Description	Specifies the port priority this queue will use to receive bandwidth from the port-level scheduler for its within-cir offered load.
Range	0 to 8
Default	0
Introduced	16.0.R3
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **port-parent**
Description	Specifies the weight this queue will use to receive bandwidth from the port-level scheduler for its within-cir offered load.
Range	0 to 100
Default	0
Introduced	16.0.R3
Notes	This element is part of a choice

level *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **port-parent**
Description	Specifies the port priority this queue will use to receive bandwidth from the port-level scheduler for its above-cir offered load.
Range	1 to 8
Default	1
Introduced	16.0.R3
Notes	This element is part of a choice

weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **port-parent**
Description	Specifies the weight this queue will use to receive bandwidth from the port-level scheduler for its above-cir offered load.
Range	0 to 100
Default	1
Introduced	16.0.R3
Notes	This element is part of a choice

profile-capped *boolean*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Enforce an overall in-profile burst limit to the CIR bucket at egress policer
Default	false
Introduced	16.0.R1

profile-out-preserve *boolean*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Preserve the color of offered out-of-profile traffic at SAP-egress policer
Default	false
Introduced	16.0.R1

rate

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **rate**
Description	Administrative CIR
Range	0 to 2000000000
Default	0
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **rate**
Description	Administrative PIR
Range	1 to 2000000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-parent

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Enter the **scheduler-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **scheduler-parent**
Description	Specifies the level of priority while feeding to the parent. The level '0' means treat all offered load for this queue as for the above CIR traffic.
Range	0 to 8
Default	0
Introduced	16.0.R3
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **scheduler-parent**
Description	The weight that needs to be used until the committed rate by the scheduler to which this queue would be feeding to.
Range	0 to 100
Default	1
Introduced	16.0.R3
Notes	This element is part of a choice

level *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **scheduler-parent**
Description	Specifies the level of priority while feeding to the parent.
Range	1 to 8
Default	1
Introduced	16.0.R3
Notes	This element is part of a choice

scheduler-name *string*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **scheduler-parent**
Description	Specifies the scheduler to which this queue would be feeding to.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is mandatory This element is part of a choice

weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number* **scheduler-parent**
Description	Specifies the weight that needs to be used by the scheduler to which this queue would be feeding to.
Range	0 to 100
Default	1
Introduced	16.0.R3
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **policer** *number*
Description	Mode of statistics collected by the policer
Default	minimal
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	16.0.R1

policers-hqos-manageable *boolean*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Manage policers through the Hierarchical QoS process
Default	false
Introduced	16.0.R1

policy-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-egress** *qos-policy-name*
Description	The sap-egress QoS policy identifier.
Range	1 to 65535
Introduced	16.0.R1

post-policer-mapping *string*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Post policer mapping policy applied to this policy
Reference	configure **qos post-policer-mapping** *string*
Introduced	16.0.R1

prec [prec-value] *number*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the prec context
Introduced	16.0.R1

[prec-value] *number*

Context	**configure qos sap-egress** *qos-policy-name* **prec** *number*
Description	Precedence value for which mapping is performed
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **prec** *number*
Description	Forwarding class
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1

hsmda-counter-override *number*

Context	**configure qos sap-egress** *qos-policy-name* **prec** *number*
Description	Specifies the counter to use for all the traffic that matches the specific precedence. A value of zero implies that the default counters should be used.
Range	1 to 8
Introduced	16.0.R1

profile *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **prec** *number*
Description	Default profile for the ingressing traffic
Options	in, out, exceed, inplus
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Egress Queue-Group queue identifier
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

adv-config-policy *string*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Name of the advanced configuration policy
Reference	configure **qos adv-config-policy** *string*
Introduced	16.0.R1

avg-frame-overhead *decimal-number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Specifies the encapsulation overhead, in centipercent, used to translate packet-based rate to frame-based rate and vice versa.
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R1

burst-limit (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 14000000
Default	auto
Options	auto
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Reserved buffer space for the queue
Range	0 to 1048576
Default	auto
Units	kilobytes
Options	auto
Introduced	16.0.R1

drop-tail

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*

Description Enter the drop-tail context

Introduced 16.0.R1

exceed

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail**

Description Enter the exceed context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail exceed**

Description Percentage of drop-tail that is reduced from MBS for exceed profile packets

Introduced 16.0.R1

high

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail**

Description Enter the high context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail high**

Description Percentage of drop-tail being that is reduced from MBS for high profile packets

Introduced 16.0.R1

highplus

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail**

Description Enter the highplus context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail highplus**

Description Percentage of drop-tail being that is reduced from MBS for high plus profile packets

Introduced 16.0.R1

low

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **drop-tail low**

Description Low drop-tail percent from MBS that is reduced

Introduced 16.0.R1

hs-alt-port-class-pool *boolean*

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*

Description Use HS alternate class port pool buffer for traffic

Default false

Introduced 16.0.R1

hs-class-weight *number*

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*

Description Scheduling class weight

Range 1 | 2 | 4 | 8

Default 1

Introduced 16.0.R1

hs-wred-queue

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*

Description Enter the hs-wred-queue context

Introduced 16.0.R1

policy *string*

Context **configure qos sap-egress** *qos-policy-name* **queue** *number* **hs-wred-queue**
Description Slope policy name
Reference configure **qos slope-policy** *string*
Introduced 16.0.R1

hs-wrr-weight *number*

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*
Description Weighted Round Robin (WRR) weight to parent with this queue into the scheduler
Range 1 to 127
Default 1
Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*
Description Buffer space allowed for the queue
Range 0 to 1073741824
Default auto
Units kilobytes
Options auto
Introduced 16.0.R1

packet-byte-offset *number*

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*
Description Packet byte offset for addition of policing information
Range -64 to 32
Default 0
Introduced 16.0.R1

percent-rate

Context **configure qos sap-egress** *qos-policy-name* **queue** *number*
Description Enter the **percent-rate** context
Introduced 16.0.R1

cir *decimal-number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Administrative CIR percent
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

reference-rate *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Reference rate as percentage
Default	port-limit
Options	port-limit, local-limit
Introduced	16.0.R1
Notes	This element is part of a choice

pool *string*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Pool name
String Length	1 to 32
Introduced	16.0.R1

port-parent

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Enter the **port-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 8
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	1 to 8
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

queue-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Priority that this queue receives from the hardware level schedulers
Default	auto-expedited
Options	expedited, auto-expedited, best-effort
Introduced	16.0.R1

rate

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **rate**
Description	Administrative CIR
Range	0 to 2000000000
Default	0
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **rate**
Description	Administrative PIR
Range	1 to 2000000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-parent

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Enter the **scheduler-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	0 to 8
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Weight that is used by the scheduler until the committed rate for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-name *string*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Scheduler to which this queue feeds
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Weight to be used by the scheduler for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

wred-queue

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number*
Description	Enter the wred-queue context
Introduced	16.0.R1

mode *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **wred-queue**
Description	Generic pool association of the queue to allow queue-specific WRED slopes
Options	native, pool-per-queue
Introduced	16.0.R1

policy *string*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **wred-queue**
Description	Slope policy name
Reference	configure **qos slope-policy** *string*
Introduced	16.0.R1

usage *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **queue** *number* **wred-queue**
Description	Specifies which slopes are active for given slope-mode
Options	auto, exceed-low
Introduced	16.0.R1

scope *keyword*

Context	**configure qos sap-egress** *qos-policy-name*
Description	Scope of the policy
Default	template
Options	exclusive, template
Introduced	16.0.R1

subscriber-mgmt

Context	**configure qos sap-egress** *qos-policy-name*
Description	Enter the subscriber-mgmt context
Introduced	16.0.R1

dynamic-policer

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt**
Description	Enter the dynamic-policer context
Introduced	16.0.R1

arbiter-parent

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Enter the arbiter-parent context
Introduced	16.0.R1

arbiter-name *string*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer arbiter-parent**
Description	Arbiter to which this policer feeds
String Length	1 to 32
Introduced	16.0.R1

level *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer arbiter-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer arbiter-parent**
Description	Weight to be used by the arbiter for feeding this policer
Range	1 to 100
Default	1
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Exceed threshold of the CIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	High priority 'violate' threshold of PIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Size of each packet, handled by the policer, to be modified
Range	-64 to 31
Default	0
Introduced	16.0.R1

policer-id-range

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Enter the policer-id-range context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer policer-id-range**
Description	Specifies the ending place at which dynamic policers required for the pcc-rule ip-criteria entries that are received from Diameter and that are shared across several hosts will be inserted.
Range	1 to 63
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer policer-id-range**
Description	Specifies the starting place at which dynamic policers required for the pcc-rule ip-criteria entries that are received from Diameter and that are shared across several hosts will be inserted.
Range	1 to 63
Introduced	16.0.R1
Notes	This element is mandatory

stat-mode *keyword*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Mode of statistics collected by the policer
Default	minimal
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir
Introduced	16.0.R1

pcc-rule-entry

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt**
Description	Enter the pcc-rule-entry context
Introduced	16.0.R1

range

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt pcc-rule-entry**
Description	Enter the range context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt pcc-rule-entry range**
Description	Specifies the ending entry at which the pcc-rule ip-criteria entries that are received from Diameter and that are shared across several hosts.
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure qos sap-egress** *qos-policy-name* **subscriber-mgmt pcc-rule-entry range**
Description	Specifies the starting entry at which the pcc-rule ip-criteria entries that are received from Diameter and that are shared across several hosts.
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

sap-ingress [sap-ingress-policy-name] *qos-policy-name*

Context	**configure qos**
Description	Enter the sap-ingress context
Introduced	16.0.R1

[sap-ingress-policy-name] *qos-policy-name*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Name of this SAP-ingress QoS policy
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

default-fc *string*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Default forwarding class or sub forwarding class for traffic not matching specific classification
String Length	1 to 32
Introduced	16.0.R1

default-priority *keyword*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Priority to assign to traffic ingressing as the default action queue
Default	low
Options	low, high
Introduced	16.0.R1

description *string*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dot1p [dot1p-value] *number*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the dot1p context
Introduced	16.0.R1

[dot1p-value] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **dot1p** *number*
Description	Dot1p value to match in the packet
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *string*

Context	**configure qos sap-ingress** *qos-policy-name* **dot1p** *number*
Description	Forwarding class or sub forwarding class to classify traffic matching the MAC criteria
String Length	1 to 32
Introduced	16.0.R1

priority *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **dot1p** *number*
Description	Priority for packets that match the Dot1p value
Options	low, high, auto
Introduced	16.0.R1

dscp [dscp-name] *keyword*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the dscp context
Introduced	16.0.R1

[dscp-name] *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **dscp** *keyword*
Description	Name for the Differentiated Services Code Point (DSCP)
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a list key

fc *string*

Context	**configure qos sap-ingress** *qos-policy-name* **dscp** *keyword*
Description	Forwarding class or sub forwarding class to classify traffic matching the MAC criteria
String Length	1 to 32
Introduced	16.0.R1

priority *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **dscp** *keyword*
Description	Priority for the packet
Options	low, high, auto
Introduced	16.0.R1

fc [fc-name] *sap-ingress-fc-name*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *sap-ingress-fc-name*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Forwarding class or the sub forwarding class for which this mapping is performed
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

broadcast-policer *number*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Policer identifier for the broadcast traffic in this forwarding class
Introduced	16.0.R1
Notes	This element is part of a choice

broadcast-queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Broadcast queue to assign for packets in this forwarding class
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

broadcast-queue-group-queue

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Enter the **broadcast-queue-group-queue** context
Introduced	16.0.R1

queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **broadcast-queue-group-queue**
Description	Broadcast queue to assign for packets in this forwarding class
Reference	configure **qos queue-group-templates ingress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

queue-group-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **broadcast-queue-group-queue**
Description	Queue group name associated with broadcast queue
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

de-1-out-profile *boolean*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Frames with DE value to be assigned as out of profile
Default	false
Introduced	16.0.R1

egress-fc *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Forwarding class to override the forwarding class determined by ingress classification
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1

fp-redirect-group-broadcast-policer

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Broadcast policer to be used as defined in the FP (forwarding-plane)
Introduced	16.0.R1
Notes	This element is part of a choice

fp-redirect-group-multicast-policer

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Broadcast policer to be used as defined in the FP (forwarding-plane)
Introduced	16.0.R1
Notes	This element is part of a choice

fp-redirect-group-policer

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Specified policer to be used as defined in the FP (forwarding-plane)
Introduced	16.0.R1
Notes	This element is part of a choice

fp-redirect-group-unknown-policer

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Broadcast policer to be used as defined in the FP (forwarding-plane)
Introduced	16.0.R1
Notes	This element is part of a choice

in-remark

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*

Description Enter the in-remark context

Introduced 16.0.R1

dscp *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **in-remark**

Description Specifies the DSCP to be used while remarking the in profile packets when the in-profile remarking type is 'dscp'.

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R3

Notes This element is part of a choice

prec *number*

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **in-remark**

Description Specifies the precedence value to be used while remarking the in profile packets when the in-profile remarking type is 'precedence'.

Range 0 to 7

Introduced 16.0.R3

Notes This element is part of a choice

multicast-policer *number*

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*

Description Policer identifier for the broadcast traffic in this forwarding class

Introduced 16.0.R1

Notes This element is part of a choice

multicast-queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Broadcast queue to assign for packets in this forwarding class
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

multicast-queue-group-queue

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Enter the **multicast-queue-group-queue** context
Introduced	16.0.R1

queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **multicast-queue-group-queue**
Description	Broadcast queue to assign for packets in this forwarding class
Reference	configure **qos queue-group-templates ingress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

queue-group-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **multicast-queue-group-queue**
Description	Queue group name associated with broadcast queue
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

out-remark

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*

Description Enter the out-remark context

Introduced 16.0.R1

dscp *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **out-remark**

Description Specifies the DSCP to be used while remarking the out profile packets when the out-profile remarking type is 'dscp'.

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R3

Notes This element is part of a choice

prec *number*

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **out-remark**

Description Specifies the precedence value to be used while remarking the out profile packets when the out-profile remarking type is 'precedence'.

Range 0 to 7

Introduced 16.0.R3

Notes This element is part of a choice

policer *number*

Context **configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*

Description Policer identifier for the normal traffic in this forwarding class

Introduced 16.0.R1

Notes This element is part of a choice

profile *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Profile of the packets associated with this forwarding class
Options	in, out
Introduced	16.0.R1

queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Queue to assign for packets in this forwarding class
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

queue-group-queue

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Enter the **queue-group-queue** context
Introduced	16.0.R1

queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **queue-group-queue**
Description	Queue to assign for packets in this forwarding class
Reference	configure **qos queue-group-templates ingress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

queue-group-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **queue-group-queue**
Description	Queue group name associated with queue
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

unknown-policer *number*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Policer identifier for the broadcast traffic in this forwarding class
Introduced	16.0.R1
Notes	This element is part of a choice

unknown-queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Broadcast queue to assign for packets in this forwarding class
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

unknown-queue-group-queue

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name*
Description	Enter the **unknown-queue-group-queue** context
Introduced	16.0.R1

queue *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **unknown-queue-group-queue**
Description	Broadcast queue to assign for packets in this forwarding class
Reference	configure **qos queue-group-templates ingress queue-group** *string* **queue** *number*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

queue-group-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **fc** *sap-ingress-fc-name* **unknown-queue-group-queue**
Description	Queue group name associated with broadcast queue
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

ip-criteria

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the ip-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number*
Description	IP criteria entry to create or edit for the policy
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number*
Description	Enter the action context
Introduced	16.0.R1

fc *string*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **action**
Description Forwarding class or sub forwarding class to classify traffic matching the MAC criteria
String Length 1 to 32
Introduced 16.0.R1

policer *string*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **action**
Description Policer identifier for the traffic matching MAC Criteria
Reference configure **qos sap-ingress** *qos-policy-name* **policer** *number*
Introduced 16.0.R1

priority *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **action**
Description Priority for the packet
Options low, high, auto
Introduced 16.0.R1

type *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **action**
Description Specified whether the criteria entry is active or in-active.
Default ignore-match
Options ignore-match, accept
Introduced 16.0.R1

description *string*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

match

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description DSCP value to match in the packet

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R1

dst-ip

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description Enter the dst-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-ip**

Description IP address to match with destination IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-ip**

Description IP-prefix list as match criterion

Reference configure **qos match-list ip-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-ip**
Description IP address to match with source IP of the packet
Introduced 16.0.R1
Notes This element is part of a choice

dst-port

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description Enter the dst-port context
Introduced 16.0.R1

eq *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**
Description Value 'equal to' assigned as match condition
Range 0 to 65535
Introduced 16.0.R1
Notes This element is part of a choice

gt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**
Description Value 'greater than' assigned as match condition
Range 0 to 65535
Introduced 16.0.R1
Notes This element is part of a choice

lt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**
Description Value 'less than' assigned as match condition
Range 0 to 65535
Introduced 16.0.R1
Notes This element is part of a choice

range

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match dst-port range**

Description Start value of range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

fragment *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description Match performed when the packet is either a fragment or not, or matches all packets

Options false, true

Introduced 16.0.R1

protocol (*number* | *keyword*)

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description IP protocol to match

Introduced 16.0.R1

src-ip

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-ip**

Description IP-prefix list as match criterion

Reference configure **qos match-list ip-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Value 'equal to' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Value 'less than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

vxlan-vni

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match**
Description	Enter the vxlan-vni context
Introduced	16.0.R1

eq *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match vxlan-vni**
Description	Value 'equal to' assigned as match condition
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match vxlan-vni**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match vxlan-vni range**
Description	End value for range
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria entry** *number* **match vxlan-vni range**
Description	Start value of range
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name* **ip-criteria**
Description	IP filter type
Default	normal
Options	normal, vxlan-vni
Introduced	16.0.R1

ipv6-criteria

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the ipv6-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number*
Description	IPv6 criteria entry to create or edit for the policy
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number*
Description	Enter the action context
Introduced	16.0.R1

fc *string*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **action**
Description	Forwarding class or sub forwarding class to classify traffic matching the MAC criteria
String Length	1 to 32
Introduced	16.0.R1

policer *string*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **action**
Description	Policer identifier for the traffic matching MAC Criteria
Reference	configure **qos sap-ingress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1

priority *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **action**
Description	Priority for the packet
Options	low, high, auto
Introduced	16.0.R1

type *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **action**

Description Specified whether the criteria entry is active or in-active.

Default ignore-match

Options ignore-match, accept

Introduced 16.0.R1

description *string*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description DSCP value to match in the packet

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R1

dst-ip

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Enter the dst-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-ip**

Description IP address to match with destination IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

dst-port

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**

Description Value 'equal to' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**
Description	Value 'less than' assigned as match condition
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port range**
Description	End value for range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match dst-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

fragment *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**
Description	Match performed when the packet is either a fragment or not, or matches all packets
Options	false, true, first-only, non-first-only
Introduced	16.0.R1

next-header (*number* | *keyword*)

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Next Header to match

Introduced 16.0.R1

src-ip

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-ip**

Description IP address to match with source IP of the packet

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Value 'equal to' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Value 'greater than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Value 'less than' assigned as match condition

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port range**

Description End value for range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match src-port range**
Description	Start value of range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

vxlan-vni

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match**
Description	Enter the vxlan-vni context
Introduced	16.0.R1

eq *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match vxlan-vni**
Description	Value 'equal to' assigned as match condition
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match vxlan-vni**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match vxlan-vni range**
Description	End value for range
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria entry** *number* **match vxlan-vni range**
Description	Start value of range
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a choice

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name* **ipv6-criteria**
Description	IPv6 filter type
Default	normal
Options	normal, vxlan-vni
Introduced	16.0.R1

lsp-exp [lsp-exp-value] *number*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the lsp-exp context
Introduced	16.0.R1

[lsp-exp-value] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **lsp-exp** *number*
Description	Value to assign the unique MPLS LSP EXP value that will match the lsp-exp rule
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *string*

Context	**configure qos sap-ingress** *qos-policy-name* **lsp-exp** *number*
Description	Forwarding class or sub forwarding class to classify traffic matching the MAC criteria
String Length	1 to 32
Introduced	16.0.R1

priority *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **lsp-exp** *number*
Description	Priority for the matching traffic
Options	low, high, auto
Introduced	16.0.R1

mac-criteria

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the mac-criteria context
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number*
Description	Identifier for MAC match criteria and the corresponding action for a SAP-ingress policy
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number*

Description Enter the action context

Introduced 16.0.R1

fc *string*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **action**

Description Forwarding class or sub forwarding class to classify traffic matching the MAC criteria

String Length 1 to 32

Introduced 16.0.R1

policer *string*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **action**

Description Policer identifier for the traffic matching MAC Criteria

Reference configure **qos sap-ingress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

priority *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **action**

Description Priority for the packet

Options low, high, auto

Introduced 16.0.R1

type *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **action**

Description Specified whether the criteria entry is active or in-active.

Default ignore-match

Options ignore-match, accept

Introduced 16.0.R1

description *string*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number*
Description	Enter the match context
Introduced	16.0.R1

atm-vci *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	ATM VC Identifier to match as part of the MAC match criteria
Range	1 to 65535
Introduced	16.0.R1

dot1p

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Enter the dot1p context
Introduced	16.0.R1

mask *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match dot1p**
Description	Value of 802.1P mask to use as a MAC filter match criterion
Range	0 to 7
Default	7
Introduced	16.0.R1

priority *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match dot1p**
Description	Value of 802.1P priority to use as a MAC filter match criterion
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

dst-mac

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Enter the dst-mac context
Introduced	16.0.R1

address *mac-address*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match dst-mac**
Description	Destination MAC address
Introduced	16.0.R1
Notes	This element is mandatory

mask *mac-address*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match dst-mac**
Description	Mask for destination MAC address
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

etype *etype-value*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Ethernet type
String Length	5 to 6
Introduced	16.0.R1

frame-type *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Match MAC criteria for ingress SAP QoS policy
Options	802dot3, 802dot2-llc, 802dot2-snap, ethernet-ii, atm
Introduced	16.0.R1

inner-tag

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Enter the inner-tag context
Introduced	16.0.R1

mask *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match inner-tag**
Description	Mask to VID of the inner VLAN tag before comparing it with the inner-tag or outer-tag value
Range	1 to 4095
Default	4095
Introduced	16.0.R1

vlan *number*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match inner-tag**
Description	Match against VID of the second or first VLAN tag in the packet carried transparently through service
Range	0 to 4095
Introduced	16.0.R1
Notes	This element is mandatory

llc-dsap

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Enter the llc-dsap context
Introduced	16.0.R1

dsap *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match llc-dsap**
Description DSAP value
Range 0 to 255
Introduced 16.0.R1
Notes This element is mandatory

mask *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match llc-dsap**
Description DSAP mask
Range 0 to 255
Default 255
Introduced 16.0.R1

llc-ssap

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description Enter the llc-ssap context
Introduced 16.0.R1

mask *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match llc-ssap**
Description Source SAP mask
Range 0 to 255
Default 255
Introduced 16.0.R1

ssap *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match llc-ssap**
Description SSAP value
Range 0 to 255
Introduced 16.0.R1
Notes This element is mandatory

outer-tag

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**

Description Enter the outer-tag context

Introduced 16.0.R1

mask *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match outer-tag**

Description First tag carried transparently through the service

Range 1 to 4095

Default 4095

Introduced 16.0.R1

vlan *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match outer-tag**

Description Match against VID of the first VLAN tag in the packet carried transparently through service

Range 0 to 4095

Introduced 16.0.R1

Notes This element is mandatory

snap-oui *keyword*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**

Description Parameter snap-oui as MAC filter match criteria

Options zero, non-zero

Introduced 16.0.R1

snap-pid *number*

Context **configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**

Description Parameter snap-pid as MAC filter match criteria

Range 0 to 65535

Introduced 16.0.R1

src-mac

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match**
Description	Enter the src-mac context
Introduced	16.0.R1

address *mac-address*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match src-mac**
Description	Source MAC address
Introduced	16.0.R1
Notes	This element is mandatory

mask *mac-address*

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria entry** *number* **match src-mac**
Description	Mask for source MAC address
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name* **mac-criteria**
Description	MAC criteria filter type
Default	normal
Options	normal, vid
Introduced	16.0.R1

policer [policer-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the policer context
Introduced	16.0.R1

[policer-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	SAP-ingress policer identifier
Range	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

adv-config-policy *string*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Name of the advanced configuration policy to apply with this queue
Reference	configure **qos adv-config-policy** *string*
Introduced	16.0.R1

arbiter-parent

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Enter the arbiter-parent context
Introduced	16.0.R1

arbiter-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **arbiter-parent**
Description	Arbiter to which this policer feeds
String Length	1 to 32
Introduced	16.0.R1

level *number*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **arbiter-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **arbiter-parent**
Description	Weight to be used by the arbiter for feeding this policer
Range	1 to 100
Default	1
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Exceed threshold of the CIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

description *string*

Context **configure qos sap-ingress** *qos-policy-name* **policer** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

high-prio-only (*number* | *keyword*)

Context **configure qos sap-ingress** *qos-policy-name* **policer** *number*

Description Percentage of PIR leaky bucket's MBS of this policer that is reserved for high priority traffic

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure qos sap-ingress** *qos-policy-name* **policer** *number*

Description High priority for the violate threshold of PIR leaky bucket of this policer

Range 0 to 16777216

Default auto

Units bytes

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure qos sap-ingress** *qos-policy-name* **policer** *number*

Description Size of each packet, handled by the policer, to be modified

Range -32 to 31

Default 0

Introduced 16.0.R1

percent-rate

Context **configure qos sap-ingress** *qos-policy-name* **policer** *number*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **percent-rate**
Description	Administrative CIR percent
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **percent-rate**
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

profile-capped *boolean*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Enforce an overall in-profile burst limit to the CIR bucket at ingress policer
Default	false
Introduced	16.0.R1

rate

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **rate**
Description	Administrative CIR
Range	0 to 2000000000
Default	0
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number* **rate**
Description	Administrative PIR
Range	1 to 2000000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **policer** *number*
Description	Mode of statistics collected by the policer
Default	minimal
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

policy-id *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name*
Description	The sap-ingress QoS policy identifier.
Range	1 to 65535
Introduced	16.0.R1

prec [prec-value] *number*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the prec context
Introduced	16.0.R1

[prec-value] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **prec** *number*
Description	Precedence value for which mapping is performed
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

fc *string*

Context	**configure qos sap-ingress** *qos-policy-name* **prec** *number*
Description	Forwarding class or sub forwarding class to classify traffic matching the MAC criteria
String Length	1 to 32
Introduced	16.0.R1

priority *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **prec** *number*
Description	Priority for the matching traffic
Options	low, high, auto
Introduced	16.0.R1

queue [queue-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the queue context
Introduced	16.0.R1

[queue-id] *number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	SAP-ingress policer identifier
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

fir *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **adaptation-rule**
Description	The adaptation rule to be used while computing the operational FIR value. The adaptation rule specifies the rules to compute the operational values while maintaining minimum offset.
Default	closest
Options	max, min, closest
Introduced	16.0.R3

pir *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Default	closest
Options	max, min, closest
Introduced	16.0.R1

adv-config-policy *string*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Name of the advanced configuration policy to apply with this queue
Reference	configure **qos adv-config-policy** *string*
Introduced	16.0.R1

burst-limit (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Explicit shaping burst size of a queue
Range	1 to 14000000
Default	auto
Options	auto
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Reserved buffer space for the queue
Range	0 to 1048576
Default	auto
Units	kilobytes
Options	auto
Introduced	16.0.R1

cir-non-profiling *boolean*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Prevents the CIR to be used for re-profiling a packet's state.
Default	false
Introduced	16.0.R3

drop-tail

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Enter the drop-tail context
Introduced	16.0.R1

low

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **drop-tail**
Description	Enter the low context
Introduced	16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **drop-tail low**
Description	Low drop-tail percent from MBS that is reduced
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Maximum buffer space that is allowed for queue
Range	0 to 1073741824
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

multipoint *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Apply as a multicast queue
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Value of the adjustment on the size of each packet for queue accounting
Range	-32 to 30
Default	0
Introduced	16.0.R1

percent-rate

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Specifies the administrative CIR percent.
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R3
Notes	This element is part of a choice

fir *decimal-number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Specifies the administrative FIR percent.
Range	0.00 to 100.00
Default	0.00
Introduced	16.0.R3
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Administrative PIR percent
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

police

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Specifies that the out of profile traffic feeding into the physical queue instance should be dropped
Introduced	16.0.R3
Notes	This element is part of a choice

reference-rate *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **percent-rate**
Description	Reference rate as percentage
Default	port-limit
Options	port-limit, local-limit
Introduced	16.0.R1
Notes	This element is part of a choice

pool *string*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Pool name to apply for SAP ingress queue
String Length	1 to 32
Introduced	16.0.R1

queue-mode *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Operating mode for this queue
Default	priority
Options	priority, profile
Introduced	16.0.R1

queue-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Priority that this queue receives from the hardware level schedulers
Default	auto-expedited
Options	expedited, auto-expedited, best-effort
Introduced	16.0.R1

rate

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **rate**
Description	Specifies the administrative CIR.
Range	0 to 2000000000
Default	0
Units	kilobps
Options	max
Introduced	16.0.R3
Notes	This element is part of a choice

fir (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **rate**
Description	Specifies the administrative FIR.
Range	0 to 2000000000
Default	0
Units	kilobps
Options	max
Introduced	16.0.R3
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **rate**
Description	Administrative PIR
Range	1 to 2000000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

police

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **rate**
Description	Specifies that the out of profile traffic feeding into the physical queue instance should be dropped
Introduced	16.0.R3
Notes	This element is part of a choice

scheduler-parent

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number*
Description	Enter the scheduler-parent context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	0 to 8
Default	0
Introduced	16.0.R1

cir-weight *number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Weight that is used by the scheduler until the committed rate for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1

level *number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1

scheduler-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Scheduler to which this queue feeds
String Length	1 to 32
Introduced	16.0.R1

weight *number*

Context	**configure qos sap-ingress** *qos-policy-name* **queue** *number* **scheduler-parent**
Description	Weight to be used by the scheduler for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1

scope *keyword*

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Scope of the policy
Default	template
Options	exclusive, template
Introduced	16.0.R1

subscriber-mgmt

Context	**configure qos sap-ingress** *qos-policy-name*
Description	Enter the subscriber-mgmt context
Introduced	16.0.R1

dynamic-policer

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt**
Description	Enter the dynamic-policer context
Introduced	16.0.R1

arbiter-parent

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Enter the arbiter-parent context
Introduced	16.0.R1

arbiter-name *string*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer arbiter-parent**
Description	Arbiter to which this policer feeds
String Length	1 to 32
Introduced	16.0.R1

level *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer arbiter-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer arbiter-parent**
Description	Weight to be used by the arbiter for feeding this policer
Range	1 to 100
Default	1
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Exceed threshold of the CIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	High priority violate threshold of PIR leaky bucket of this policer
Range	0 to 16777216
Default	auto
Units	bytes
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Size of each packet, handled by the policer, to be modified
Range	-32 to 31
Default	0
Introduced	16.0.R1

policer-id-range

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Enter the policer-id-range context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer policer-id-range**
Description	Ending place at which dynamic policers, required for PCC-rule IP criteria entries, will be inserted
Range	1 to 63
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer policer-id-range**
Description	Starting place at which dynamic policers, required for PCC-rule IP criteria entries, will be inserted
Range	1 to 63
Introduced	16.0.R1
Notes	This element is mandatory

stat-mode *keyword*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt dynamic-policer**
Description	Mode of statistics collected by the policer
Default	minimal
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

pcc-rule-entry

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt**
Description	Enter the pcc-rule-entry context
Introduced	16.0.R1

range

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt pcc-rule-entry**
Description	Enter the range context
Introduced	16.0.R1

end *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt pcc-rule-entry range**
Description	Ending entry at which the PCC-rule IP criteria entries are shared across several hosts
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Context	**configure qos sap-ingress** *qos-policy-name* **subscriber-mgmt pcc-rule-entry range**
Description	Starting entry at which the PCC-rule IP criteria entries are shared across several hosts
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

scheduler-policy [scheduler-policy-name] *string*

Context	**configure qos**
Description	Enter the scheduler-policy context
Max. Elements	2047
Introduced	16.0.R1

[scheduler-policy-name] *string*

Context	**configure qos scheduler-policy** *string*
Description	Scheduler policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos scheduler-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

frame-based-accounting *boolean*

Context	**configure qos scheduler-policy** *string*
Description	Use frame-based accounting for schedulers and children within scheduler policy
Default	false
Introduced	16.0.R1

tier [tier-id] *number*

Context	**configure qos scheduler-policy** *string*
Description	Enter the tier context
Introduced	16.0.R1

[tier-id] *number*

Context	**configure qos scheduler-policy** *string* **tier** *number*
Description	Tier for scheduler-policy scheduler
Range	1 to 3
Introduced	16.0.R1
Notes	This element is part of a list key

parent-location *keyword*

Context	**configure qos scheduler-policy** *string* **tier** *number*
Description	Location in which the tier 1 schedulers can find their parent
Default	auto
Options	auto, sub, vport
Introduced	16.0.R1

scheduler [scheduler-name] *string*

Context	**configure qos scheduler-policy** *string* **tier** *number*
Description	Enter the scheduler context
Introduced	16.0.R1

[scheduler-name] *string*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string*
Description	Scheduler name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

limit-unused-bandwidth *boolean*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string*
Description	Enable aggregate rate overrun protection
Default	false
Introduced	16.0.R1

port-parent

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string*
Description	Enter the **port-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 8
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **port-parent**
Description	Port priority that this queue uses to receive bandwidth from the port level scheduler
Range	1 to 8
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

weight *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **port-parent**
Description	Weight that this queue uses to receive bandwidth from the port level scheduler
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string*
Description	Enter the rate context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **rate**
Description	Administrative CIR
Default	sum
Units	kilobps
Introduced	16.0.R1

pir (*number* | *keyword*)

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **rate**
Description	Administrative PIR
Default	max
Units	kilobps
Introduced	16.0.R1

scheduler-parent

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string*
Description	Enter the **scheduler-parent** context
Introduced	16.0.R1

cir-level *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	0 to 8
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

cir-weight *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **scheduler-parent**
Description	Weight that is used by the scheduler until the committed rate for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

level *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **scheduler-parent**
Description	Level of priority while feeding to the parent
Range	1 to 8
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler-name *string*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **scheduler-parent**
Description	Scheduler to which this queue would be feeding to
String Length	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

weight *number*

Context	**configure qos scheduler-policy** *string* **tier** *number* **scheduler** *string* **scheduler-parent**
Description	Weight to be used by the scheduler for feeding this queue
Range	0 to 100
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

shared-queue [shared-queue-policy-name] *string*

Context	**configure qos**
Description	Enter the shared-queue context
Introduced	16.0.R1

[shared-queue-policy-name] *string*

Context	**configure qos shared-queue** *string*
Description	Name for the shared queue policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos shared-queue** *string*
Description	Text description
String Length	0 to 80
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure qos shared-queue** *string*
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure qos shared-queue** *string* **fc** *keyword*
Description	Forwarding class mapping to queue mappings
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

broadcast-queue *number*

Context **configure qos shared-queue** *string* **fc** *keyword*

Description Logical queue that the broadcast traffic, classified into this forwarding class, should use

Range 9 to 32

Introduced 16.0.R1

multicast-queue *number*

Context **configure qos shared-queue** *string* **fc** *keyword*

Description Logical queue that the multicast traffic, classified into this forwarding class, should use

Range 9 to 32

Introduced 16.0.R1

queue *number*

Context **configure qos shared-queue** *string* **fc** *keyword*

Description Logical queue that the traffic, classified into this forwarding class, should use

Range 1 to 8

Introduced 16.0.R1

unknown-queue *number*

Context **configure qos shared-queue** *string* **fc** *keyword*

Description Logical queue that the unknown traffic, classified into this forwarding class, should use

Range 9 to 32

Introduced 16.0.R1

queue [queue-id] *number*

Context **configure qos shared-queue** *string*

Description Enter the queue context

Introduced 16.0.R1

[queue-id] *number*

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Shared queue identifier
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

cbs *number*

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Committed burst size as a percentage of the maximum reserved buffer space for the queue
Range	0 to 100
Units	percent
Introduced	16.0.R1

drop-tail

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Enter the drop-tail context
Introduced	16.0.R1

low

Context	**configure qos shared-queue** *string* **queue** *number* **drop-tail**
Description	Enter the low context
Introduced	16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context	**configure qos shared-queue** *string* **queue** *number* **drop-tail low**
Description	Low drop-tail percent from MBS that is reduced
Introduced	16.0.R1

mbs *number*

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Maximum burst size as a percentage of maximum reserved buffer space for the queue
Range	0 to 100
Units	percent
Introduced	16.0.R1

multipoint *boolean*

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Apply as a multicast queue
Introduced	16.0.R1

pool *string*

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Pool name for shared queue
String Length	1 to 32
Introduced	16.0.R1

queue-type *keyword*

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Priority that this queue receives from the hardware level schedulers
Default	auto-expedited
Options	expedited, auto-expedited, best-effort
Introduced	16.0.R1

rate

Context	**configure qos shared-queue** *string* **queue** *number*
Description	Enter the rate context
Introduced	16.0.R1

cir *number*

Context	**configure qos shared-queue** *string* **queue** *number* **rate**
Description	CIR percentage rate
Range	0 to 100
Units	percent
Introduced	16.0.R1

fir *number*

Context	**configure qos shared-queue** *string* **queue** *number* **rate**
Description	Specifies the FIR percentage rate.
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R3

pir *number*

Context	**configure qos shared-queue** *string* **queue** *number* **rate**
Description	PIR percentage rate
Range	1 to 100
Default	100
Units	percent
Introduced	16.0.R1

slope-policy [slope-policy-name] *string*

Context	**configure qos**
Description	Enter the slope-policy context
Max. Elements	511
Introduced	16.0.R1

[slope-policy-name] *string*

Context	**configure qos slope-policy** *string*
Description	Slope policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure qos slope-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

exceed-slope

Context	**configure qos slope-policy** *string*
Description	Enter the exceed-slope context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure qos slope-policy** *string* **exceed-slope**
Description	Administrative state of the exceed priority RED slope
Options	enable, disable
Introduced	16.0.R1

max-avg *number*

Context	**configure qos slope-policy** *string* **exceed-slope**
Description	Buffer percentage after which the drop probability reaches maximum average
Range	0 to 100
Introduced	16.0.R1

max-prob *number*

Context	**configure qos slope-policy** *string* **exceed-slope**
Description	Drop probability to increase at exceed start-average
Range	0 to 100
Introduced	16.0.R1

start-avg *number*

Context	**configure qos slope-policy** *string* **exceed-slope**
Description	Buffer percentage after which the drop probability starts to rise above value
Range	0 to 100
Introduced	16.0.R1

high-slope

Context	**configure qos slope-policy** *string*
Description	Enter the high-slope context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure qos slope-policy** *string* **high-slope**
Description	Administrative state of the high priority RED slope
Options	enable, disable
Introduced	16.0.R1

max-avg *number*

Context	**configure qos slope-policy** *string* **high-slope**
Description	Buffer percentage after which the drop probability reaches maximum average
Range	0 to 100
Introduced	16.0.R1

max-prob *number*

Context **configure qos slope-policy** *string* **high-slope**

Description Drop probability to increase at high start-average

Range 0 to 100

Introduced 16.0.R1

start-avg *number*

Context **configure qos slope-policy** *string* **high-slope**

Description Buffer percentage after which the drop probability starts to rise above value

Range 0 to 100

Introduced 16.0.R1

highplus-slope

Context **configure qos slope-policy** *string*

Description Enter the highplus-slope context

Introduced 16.0.R1

admin-state *keyword*

Context **configure qos slope-policy** *string* **highplus-slope**

Description Administrative state of the highplus priority RED slope

Options enable, disable

Introduced 16.0.R1

max-avg *number*

Context **configure qos slope-policy** *string* **highplus-slope**

Description Buffer percentage after which the drop probability reaches maximum average

Range 0 to 100

Introduced 16.0.R1

max-prob *number*

Context	**configure qos slope-policy** *string* **highplus-slope**
Description	Drop probability increase at highplus start-average
Range	0 to 100
Introduced	16.0.R1

start-avg *number*

Context	**configure qos slope-policy** *string* **highplus-slope**
Description	Buffer percentage after which the drop probability starts to rise above value
Range	0 to 100
Introduced	16.0.R1

low-slope

Context	**configure qos slope-policy** *string*
Description	Enter the low-slope context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure qos slope-policy** *string* **low-slope**
Description	Administrative state of the low priority RED slope
Options	enable, disable
Introduced	16.0.R1

max-avg *number*

Context	**configure qos slope-policy** *string* **low-slope**
Description	Buffer percentage after which the drop probability reaches maximum average
Range	0 to 100
Introduced	16.0.R1

max-prob *number*

Context	**configure qos slope-policy** *string* **low-slope**
Description	Drop probability to increase at low start-average
Range	0 to 100
Introduced	16.0.R1

start-avg *number*

Context	**configure qos slope-policy** *string* **low-slope**
Description	Buffer percentage after which the drop probability starts to rise above value
Range	0 to 100
Introduced	16.0.R1

time-average-factor *number*

Context	**configure qos slope-policy** *string*
Description	Apply time average factor to weight between previous and new shared buffer utilization result
Range	0 to 15
Default	7
Introduced	16.0.R1

31 redundancy Commands

configure
- redundancy
  - bgp-evpn
    - ethernet-segment
      - activation-timer *number*
      - boot-timer *number*
  - bgp-mh
    - site
      - activation-timer *number*
      - boot-timer *number*
      - min-down-timer *number*
  - cert-sync *boolean*
  - mgmt-ethernet
    - revert *number*
  - multi-chassis
    - peer (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
      - admin-state *keyword*
      - authentication-key *encrypted-leaf*
      - description *string*
      - mc-ipsec
        - bfd-liveness *boolean*
        - discovery-interval
          - boot *number*
          - interval-secs *number*
        - hold-on-neighbor-failure *number*
        - keep-alive-interval *number*
        - tunnel-group *string*
          - admin-state *keyword*
          - peer-group *number*
          - priority *number*
      - mc-lag
        - admin-state *keyword*
        - hold-on-neighbor-failure *number*
        - keep-alive-interval *number*
        - lag *string*
          - lacp-key *number*
          - remote-lag *number*
          - source-bmac-lsb (*keyword* | *string*)
          - system-id *mac-address*
          - system-priority *number*
      - mc-ring
        - ring *string*
          - admin-state *keyword*
          - in-band-control-path
            - debounce *boolean*
            - dst-ip *ipv4-unicast-address*
            - interface *interface-name*
            - max-debounce-time *number*
            - service-name *service-name*
          - path-b

```
            — range start number end number
            — wildcard-saps boolean
         — path-excl
            — range start number end number
            — wildcard-saps boolean
         — ring-node string
            — admin-state keyword
            — dst-ip ipv4-unicast-address
            — interval number
            — service-name service-name
            — src-ip ipv4-unicast-address
            — src-mac (keyword | string)
            — vlan ext-vlan-encap
         — srrp-instance number
         — type keyword
   — peer-name string
   — source-address (ipv4-address-no-zone | ipv6-address-no-zone)
   — sync
      — admin-state keyword
      — diameter-proxy boolean
      — igmp boolean
      — igmp-snooping boolean
      — ipsec boolean
      — l2tp boolean
      — local-dhcp-server boolean
      — mc-ring boolean
      — mld boolean
      — mld-snooping boolean
      — pim-snooping
         — saps boolean
         — spoke-sdps boolean
      — python boolean
      — srrp boolean
      — sub-host-trk boolean
      — sub-mgmt
         — ipoe boolean
         — pppoe boolean
      — tags
         — lag string
            — range start vlan-encap end vlan-encap
               — sync-tag string
            — sync-tag string
         — port string
            — range start vlan-encap end vlan-encap
               — sync-tag string
            — sync-tag string
         — pw-port string
            — range start vlan-encap end vlan-encap
               — sync-tag string
            — sync-tag string
         — sdp number
            — range start number end number
               — sync-tag string
            — sync-tag string
```

- **track-srrp** *number*
  - **l2tp-tunnel-id-range**
    - **end** *number*
    - **start** *number*
  - **tunnel-group** *number*
    - **sync-tag** *string*
- **rollback-sync** *keyword*
- **switchover-exec** *url*
- **synchronize** *keyword*

31.1 redundancy Command Descriptions

redundancy

Context	**configure**
Description	Enter the redundancy context
Introduced	16.0.R1

bgp-evpn

Context	**configure redundancy**
Description	Enter the bgp-evpn context
Introduced	16.0.R1

ethernet-segment

Context	**configure redundancy bgp-evpn**
Description	Enter the ethernet-segment context
Introduced	16.0.R1

activation-timer *number*

Context	**configure redundancy bgp-evpn ethernet-segment**
Description	Time before activating specified Ethernet segment on specified PE that is elected as DF
Range	0 to 100
Default	3
Units	seconds
Introduced	16.0.R1

boot-timer *number*

Context	**configure redundancy bgp-evpn ethernet-segment**
Description	Time before running BGP EVPN multi-homing DF election algorithm
Range	0 to 600
Default	10
Units	seconds
Introduced	16.0.R1

bgp-mh

Context	**configure redundancy**
Description	Enter the bgp-mh context
Introduced	16.0.R1

site

Context	**configure redundancy bgp-mh**
Description	Enter the site context
Introduced	16.0.R1

activation-timer *number*

Context	**configure redundancy bgp-mh site**
Description	Time to keep local sites in standby status before running DF election algorithm
Range	0 to 100
Default	2
Units	seconds
Introduced	16.0.R1

boot-timer *number*

Context	**configure redundancy bgp-mh site**
Description	Time that system waits after node reboot and before it runs DF election algorithm
Range	0 to 600
Default	10
Units	seconds
Introduced	16.0.R1

min-down-timer *number*

Context	**configure redundancy bgp-mh site**
Description	Minimum downtime for BGP multi-homing site after transition from up to down
Range	1 to 100
Units	seconds
Introduced	16.0.R1

cert-sync *boolean*

Context	**configure redundancy**
Description	Synchronize redundancy certificate files between the primary and secondary CPMs
Default	true
Introduced	16.0.R1

mgmt-ethernet

Context	**configure redundancy**
Description	Enter the mgmt-ethernet context
Introduced	16.0.R1

revert *number*

Context	**configure redundancy mgmt-ethernet**
Description	Time before reverting standby CPM management Ethernet port to active CPM
Range	1 to 300
Default	5
Units	seconds
Introduced	16.0.R1

multi-chassis

Context	**configure redundancy**
Description	Enter the multi-chassis context
Introduced	16.0.R1

peer [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure redundancy multi-chassis**
Description	Enter the peer context
Max. Elements	20
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address for server
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Administrative state of the peer instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Authentication key used between this node and the multi-chassis peer
String Length	1 to 54
Introduced	16.0.R1

description *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

mc-ipsec

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the mc-ipsec context
Introduced	16.0.R1

bfd-liveness *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec**

Description Enable BFD

Default false

Introduced 16.0.R1

discovery-interval

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec**

Description Enter the discovery-interval context

Introduced 16.0.R1

boot *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec discovery-interval**

Description Maximum interval after system bootup

Range 1 to 1800

Default 300

Units seconds

Introduced 16.0.R1

interval-secs *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec discovery-interval**

Description Maximum discovery interval

Range 1 to 1800

Default 300

Units seconds

Introduced 16.0.R1

hold-on-neighbor-failure *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec**
Description	Hold time on neighbor failure
Range	2 to 25
Default	3
Introduced	16.0.R1

keep-alive-interval *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec**
Description	Keepalive interval
Range	5 to 500
Default	10
Units	deciseconds
Introduced	16.0.R1

tunnel-group [tunnel-group-id] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec**
Description	Enter the tunnel-group context
Introduced	16.0.R1

[tunnel-group-id] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec tunnel-group** *string*
Description	Tunnel group ID
Reference	configure **isa tunnel-group** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec tunnel-group** *string*

Description Administrative state of the peer IPsec tunnel group instance

Default disable

Options enable, disable

Introduced 16.0.R1

peer-group *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec tunnel-group** *string*

Description Peer tunnel group

Range 1 to 16

Introduced 16.0.R1

priority *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ipsec tunnel-group** *string*

Description Tunnel group priority

Range 0 to 255

Default 100

Introduced 16.0.R1

mc-lag

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the mc-lag context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag**
Description	Administrative state of MC-LAG
Default	disable
Options	enable, disable
Introduced	16.0.R1

hold-on-neighbor-failure *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag**
Description	Intervals before standby node assumes that redundant neighbor node has failed
Range	2 to 25
Default	3
Introduced	16.0.R1

keep-alive-interval *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag**
Description	Keepalive timer value
Range	5 to 500
Default	10
Units	deciseconds
Introduced	16.0.R1

lag [lag-index] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag**
Description	Enter the lag context
Introduced	16.0.R1

[lag-index] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag lag** *string*
Description	LAG index
Reference	configure **lag** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

lacp-key *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag lag** *string*
Description	Key based on the remote MC-LAG
Range	1 to 65535
Introduced	16.0.R1

remote-lag *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag lag** *string*
Description	Lag ID of the remote MC-LAG
Range	1 to 800
Introduced	16.0.R1

source-bmac-lsb (*keyword* | *string*)

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag lag** *string*
Description	MAC address value to apply to all ingress traffic
Options	use-lacp-key
Introduced	16.0.R1

system-id *mac-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag lag** *string*

Description ID based on the remote MC-LAG

Introduced 16.0.R1

system-priority *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-lag lag** *string*

Description Priority based on the remote MC-LAG

Range 1 to 65535

Introduced 16.0.R1

mc-ring

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the mc-ring context

Introduced 16.0.R1

ring [sync-tag] *string*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring**

Description Enter the ring context

Introduced 16.0.R1

[sync-tag] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*
Description	Synchronization tag for this ring on this multi-chassis peer
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*
Description	Administrative state of the multi-chassis ring
Default	disable
Options	enable, disable
Introduced	16.0.R1

in-band-control-path

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*
Description	Enter the in-band-control-path context
Introduced	16.0.R1

debounce *boolean*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **in-band-control-path**
Description	Exponential back-off timer to use for delay path switching after consecutive failures
Default	true
Introduced	16.0.R1

dst-ip *ipv4-unicast-address*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **in-band-control-path**
Description	IP address of the in-band control path peer
Introduced	16.0.R1

interface *interface-name*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **in-band-control-path**
Description	Interface to verify in-band control path
String Length	1 to 32
Introduced	16.0.R1

max-debounce-time *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **in-band-control-path**
Description	Maximum delay after a failure when debouncing is active
Range	5 to 200
Default	10
Units	seconds
Introduced	16.0.R1

service-name *service-name*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **in-band-control-path**
Description	Name of the service to verify the in-band control path
String Length	1 to 64
Introduced	16.0.R1

path-b

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*
Description	Enter the path-b context
Introduced	16.0.R1

range start *number* **end** *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-b**
Description	Enter the range context
Introduced	16.0.R1

start *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-b range start** *number* **end** *number*

Description First VLAN in the range

Range 0 to 4094

Introduced 16.0.R1

Notes This element is part of a list key

end *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-b range start** *number* **end** *number*

Description Last VLAN in the range

Range 0 to 4094

Introduced 16.0.R1

Notes This element is part of a list key

wildcard-saps *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-b**

Description Include the SAPs starting with a wildcard '*'

Default false

Introduced 16.0.R4

path-excl

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*

Description Enter the path-excl context

Introduced 16.0.R1

range start *number* **end** *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-excl**

Description Enter the range context

Introduced 16.0.R1

start *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-excl range start** *number* **end** *number*
Description	First VLAN in the range
Range	0 to 4094
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-excl range start** *number* **end** *number*
Description	Last VLAN in the range
Range	0 to 4094
Introduced	16.0.R1
Notes	This element is part of a list key

wildcard-saps *boolean*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **path-excl**
Description	Include the SAPs starting with a wildcard '*'
Default	false
Introduced	16.0.R4

ring-node [name] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*
Description	Enter the ring-node context
Introduced	16.0.R1

[name] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*
Description	Name of a multi-chassis ring access node
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*
Description	Administrative state of connection verification for this access node
Default	disable
Options	enable, disable
Introduced	16.0.R1

dst-ip *ipv4-unicast-address*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*
Description	Destination IP address for access node connection
Introduced	16.0.R1

interval *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*
Description	Connection verification interval
Range	1 to 6000
Default	5
Units	minutes
Introduced	16.0.R1

service-name *service-name*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*

Description Service name for access node connection

String Length 1 to 64

Introduced 16.0.R1

src-ip *ipv4-unicast-address*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*

Description Source IP address for access node connection

Introduced 16.0.R1

src-mac (*keyword* | *string*)

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*

Description Source MAC address for the access node connection

Default system-mac-address

Options system-mac-address

Introduced 16.0.R1

vlan *ext-vlan-encap*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **ring-node** *string*

Description VLAN ID for access node connection

String Length 1 to 11

Introduced 16.0.R1

srrp-instance [id] *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*

Description Enter the srrp-instance context

Max. Elements 2

Introduced 16.0.R1

[id] *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string* **srrp-instance** *number*
Description	SRRP ID
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **mc-ring ring** *string*
Description	Type of the multi-chassis ring
Options	layer-2, layer-3
Introduced	16.0.R1
Notes	This element is mandatory

peer-name *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Multi-chassis peer name
String Length	1 to 32
Introduced	16.0.R1

source-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Source address to communicate with the multi-chassis peer
Introduced	16.0.R1

sync

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the sync context

Introduced 16.0.R1

admin-state *keyword*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Administrative state of the synchronization

Default disable

Options enable, disable

Introduced 16.0.R1

diameter-proxy *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize the Diameter proxy data with the multi-chassis peer

Default false

Introduced 16.0.R1

igmp *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize IGMP protocol information with the multi-chassis peer

Default false

Introduced 16.0.R1

igmp-snooping *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize IGMP snooping information

Default false

Introduced 16.0.R1

ipsec *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize IPsec information

Default false

Introduced 16.0.R1

l2tp *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize Layer Two Tunnel Protocol (L2TP)

Default false

Introduced 16.0.R1

local-dhcp-server *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize DHCP Server information

Default false

Introduced 16.0.R1

mc-ring *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize ring information

Default false

Introduced 16.0.R1

mld *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize MLD protocol information

Default false

Introduced 16.0.R1

mld-snooping *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize MLD snooping information

Default false

Introduced 16.0.R1

pim-snooping

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Enter the pim-snooping context

Introduced 16.0.R1

saps *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync pim-snooping**

Description Synchronize PIM snooping data with the multi-chassis peer on SDP endpoints

Default false

Introduced 16.0.R1

spoke-sdps *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync pim-snooping**

Description Synchronize PIM snooping data with the multi-chassis peer on SDP endpoints

Default false

Introduced 16.0.R1

python *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize Python

Default false

Introduced 16.0.R1

srrp *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize SRRP information

Default false

Introduced 16.0.R1

sub-host-trk *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Synchronize subscriber host tracking information

Default false

Introduced 16.0.R1

sub-mgmt

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Enter the sub-mgmt context

Introduced 16.0.R1

ipoe *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync sub-mgmt**

Description Synchronize subscriber management IPoE information

Default false

Introduced 16.0.R1

pppoe *boolean*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync sub-mgmt**

Description Synchronize subscriber management PPPoE information

Default false

Introduced 16.0.R1

tags

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Enter the tags context

Introduced 16.0.R1

lag [id] *string*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags**

Description Enter the lag context

Introduced 16.0.R1

[id] *string*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags lag** *string*

Description LAG port synchronization

Reference configure **lag** *number*

Introduced 16.0.R1

Notes This element is part of a list key

range start *vlan-encap* end *vlan-encap*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags lag** *string*

Description Enter the range context

Introduced 16.0.R1

start *vlan-encap*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags lag** *string* **range start** *vlan-encap* **end** *vlan-encap*

Description First encapsulation value

String Length 1 to 11

Introduced 16.0.R1

Notes This element is part of a list key

end *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags lag** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	Last encapsulation value
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags lag** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags lag** *string*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1

port [id] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags**
Description	Enter the port context
Introduced	16.0.R1

[id] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags port** *string*
Description	Port synchronization
Reference	configure **port** *port*
Introduced	16.0.R1
Notes	This element is part of a list key

range start *vlan-encap* **end** *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags port** *string*
Description	Enter the range context
Introduced	16.0.R1

start *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags port** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	First encapsulation value
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is part of a list key

end *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags port** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	Last encapsulation value
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags port** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags port** *string*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1

pw-port [id] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags**
Description	Enter the pw-port context
Introduced	16.0.R1

[id] *string*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags pw-port** *string*
Description	A pseudowire port to synchronize
Reference	configure **pw-port** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

range start *vlan-encap* **end** *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags pw-port** *string*
Description	Enter the range context
Introduced	16.0.R1

start *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags pw-port** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	First encapsulation value
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is part of a list key

end *vlan-encap*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags pw-port** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	Last encapsulation value
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags pw-port** *string* **range start** *vlan-encap* **end** *vlan-encap*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags pw-port** *string*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1

sdp [id] *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags**
Description	Enter the sdp context
Introduced	16.0.R1

[id] *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags sdp** *number*
Description	SDP synchronization
Range	1 to 32767
Introduced	16.0.R1
Notes	This element is part of a list key

range start *number* **end** *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags sdp** *number*
Description	Enter the range context
Introduced	16.0.R1

start *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags sdp** *number* **range start** *number* **end** *number*
Description	First virtual circuit ID
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags sdp** *number* **range start** *number* **end** *number*
Description	Last virtual circuit ID
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags sdp** *number* **range start** *number* **end** *number*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tags sdp** *number*
Description	Synchronization tag
String Length	1 to 32
Introduced	16.0.R1

track-srrp [id] *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**
Description	Enter the track-srrp context
Introduced	16.0.R1

[id] *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync track-srrp** *number*
Description	ID of tracked SRRP instance
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

l2tp-tunnel-id-range

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync track-srrp** *number*
Description	Enter the l2tp-tunnel-id-range context
Introduced	16.0.R1

end *number*

Context	**configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync track-srrp** *number* **l2tp-tunnel-id-range**
Description	End value of range
Range	1 to 16383
Introduced	16.0.R1

start *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync track-srrp** *number* **l2tp-tunnel-id-range**

Description Start value of range

Range 1 to 16383

Introduced 16.0.R1

tunnel-group [tunnel-group-id] *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync**

Description Enter the tunnel-group context

Introduced 16.0.R1

[tunnel-group-id] *number*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tunnel-group** *number*

Description Multi-active tunnel group ID

Range 1 to 16

Introduced 16.0.R1

Notes This element is part of a list key

sync-tag *string*

Context **configure redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **sync tunnel-group** *number*

Description Synchronization tag for this tunnel group on this multi-chassis peer

String Length 1 to 32

Introduced 16.0.R1

Notes This element is mandatory

rollback-sync *keyword*

Context **configure redundancy**

Description Parameters for redundancy rollback synchronization

Options rollback-single, rollback-all

Introduced 16.0.R1

switchover-exec *url*

Context	**configure redundancy**
Description	Location and name of the CLI script file executed after a redundancy switchover
String Length	1 to 100
Introduced	16.0.R1

synchronize *keyword*

Context	**configure redundancy**
Description	Parameters for redundancy synchronization
Options	config, boot-env
Introduced	16.0.R1

32 router Commands

configure
- **router** *string*
  - **aggregates**
    - **aggregate** (*ipv4-prefix* | *ipv6-prefix*)
      - **aggregator**
        - **address** *ipv4-unicast-address*
        - **as-number** *number*
      - **as-set** *boolean*
      - **blackhole**
        - **generate-icmp** *boolean*
      - **community** *community*
      - **description** *string*
      - **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
      - **local-preference** *number*
      - **summary-only** *boolean*
  - **allow-icmp-redirect** *boolean*
  - **allow-icmp6-redirect** *boolean*
  - **autonomous-system** *number*
  - **bgp**
    - **add-paths**
      - **ipv4**
        - **receive** *boolean*
        - **send** *number*
      - **ipv6**
        - **receive** *boolean*
        - **send** *number*
      - **label-ipv4**
        - **receive** *boolean*
        - **send** *number*
      - **label-ipv6**
        - **receive** *boolean*
        - **send** *number*
      - **mcast-vpn-ipv4**
        - **receive** *boolean*
        - **send** *number*
      - **mcast-vpn-ipv6**
        - **receive** *boolean*
        - **send** *number*
      - **mvpn-ipv4**
        - **receive** *boolean*
        - **send** *number*
      - **mvpn-ipv6**
        - **receive** *boolean*
        - **send** *number*
      - **vpn-ipv4**
        - **receive** *boolean*
        - **send** *number*
      - **vpn-ipv6**
        - **receive** *boolean*
        - **send** *number*

- **admin-state** *keyword*
- **advertise-external**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
- **advertise-inactive** *boolean*
- **advertise-ipv6-next-hops**
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
  - **vpn-ipv4** *boolean*
  - **vpn-ipv6** *boolean*
- **aggregator-id-zero** *boolean*
- **asn-4-byte** *boolean*
- **authentication-key** *encrypted-leaf*
- **authentication-keychain** *string*
- **backup-path**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
- **best-path-selection**
  - **always-compare-med**
    - **med-value** *keyword*
    - **strict-as** *boolean*
  - **as-path-ignore**
    - **ipv4** *boolean*
    - **ipv6** *boolean*
    - **l2-vpn** *boolean*
    - **label-ipv4** *boolean*
    - **label-ipv6** *boolean*
    - **mcast-ipv4** *boolean*
    - **mcast-ipv6** *boolean*
    - **mvpn-ipv4** *boolean*
    - **mvpn-ipv6** *boolean*
    - **vpn-ipv4** *boolean*
    - **vpn-ipv6** *boolean*
  - **compare-origin-validation-state** *boolean*
  - **deterministic-med** *boolean*
  - **ebgp-ibgp-equal**
    - **ipv4** *boolean*
    - **ipv6** *boolean*
    - **label-ipv4** *boolean*
    - **label-ipv6** *boolean*
    - **vpn-ipv4** *boolean*
    - **vpn-ipv6** *boolean*
  - **ignore-nh-metric** *boolean*
  - **ignore-router-id**
    - **include-internal**
      - **mvpn-ipv4** *boolean*
      - **mvpn-ipv6** *boolean*
  - **origin-invalid-unusable** *boolean*
- **bfd-liveness** *boolean*
- **client-reflect** *boolean*

- **cluster**
  - **allow-local-fallback** *boolean*
  - **cluster-id** *ipv4-address*
  - **orr-location** *number*
- **connect-retry** *number*
- **damp-peer-oscillations**
  - **error-interval** *number*
  - **idle-hold-time**
    - **initial-wait** *number*
    - **max-wait** *number*
    - **second-wait** *number*
- **damping** *boolean*
- **def-recv-evpn-encap** *keyword*
- **description** *string*
- **dynamic-neighbor-limit** *number*
- **enforce-first-as** *boolean*
- **error-handling**
  - **update-fault-tolerance** *boolean*
- **export**
  - **policy** *string*
- **extended-nh-encoding**
  - **label-ipv4** *boolean*
  - **vpn-ipv4** *boolean*
- **family**
  - **bgp-ls** *boolean*
  - **evpn** *boolean*
  - **flow-ipv4** *boolean*
  - **flow-ipv6** *boolean*
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **l2-vpn** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
  - **mcast-ipv4** *boolean*
  - **mcast-ipv6** *boolean*
  - **mcast-vpn-ipv4** *boolean*
  - **mcast-vpn-ipv6** *boolean*
  - **mdt-safi** *boolean*
  - **ms-pw** *boolean*
  - **mvpn-ipv4** *boolean*
  - **mvpn-ipv6** *boolean*
  - **route-target** *boolean*
  - **sr-policy-ipv4** *boolean*
  - **vpn-ipv4** *boolean*
  - **vpn-ipv6** *boolean*
- **fast-external-failover** *boolean*
- **flowspec**
  - **validate-dest-prefix** *boolean*
  - **validate-redirect-ip** *boolean*
- **graceful-restart**
  - **gr-notification** *boolean*
  - **long-lived**
    - **advertise-stale-to-all-neighbors** *boolean*
    - **advertised-stale-time** *number*

- — **family** *keyword*
  - — **advertised-stale-time** *number*
  - — **helper-override-stale-time** *number*
- — **forwarding-bits-set** *keyword*
- — **helper-override-restart-time** *number*
- — **helper-override-stale-time** *number*
- — **without-no-export** *boolean*
- — **restart-time** *number*
- — **stale-routes-time** *number*

— **group** *string*

- — **add-paths**
  - — **ipv4**
    - — **receive** *boolean*
    - — **send** *number*
  - — **ipv6**
    - — **receive** *boolean*
    - — **send** *number*
  - — **label-ipv4**
    - — **receive** *boolean*
    - — **send** *number*
  - — **label-ipv6**
    - — **receive** *boolean*
    - — **send** *number*
  - — **mcast-vpn-ipv4**
    - — **receive** *boolean*
    - — **send** *number*
  - — **mcast-vpn-ipv6**
    - — **receive** *boolean*
    - — **send** *number*
  - — **mvpn-ipv4**
    - — **receive** *boolean*
    - — **send** *number*
  - — **mvpn-ipv6**
    - — **receive** *boolean*
    - — **send** *number*
  - — **vpn-ipv4**
    - — **receive** *boolean*
    - — **send** *number*
  - — **vpn-ipv6**
    - — **receive** *boolean*
    - — **send** *number*
- — **admin-state** *keyword*
- — **advertise-inactive** *boolean*
- — **advertise-ipv6-next-hops**
  - — **label-ipv4** *boolean*
  - — **label-ipv6** *boolean*
  - — **vpn-ipv4** *boolean*
  - — **vpn-ipv6** *boolean*
- — **aggregator-id-zero** *boolean*
- — **aigp** *boolean*
- — **asn-4-byte** *boolean*
- — **authentication-key** *encrypted-leaf*
- — **authentication-keychain** *string*
- — **bfd-liveness** *boolean*

- **capability-negotiation** *boolean*
- **client-reflect** *boolean*
- **cluster**
  - **allow-local-fallback** *boolean*
  - **cluster-id** *ipv4-address*
  - **orr-location** *number*
- **connect-retry** *number*
- **damp-peer-oscillations**
  - **error-interval** *number*
  - **idle-hold-time**
    - **initial-wait** *number*
    - **max-wait** *number*
    - **second-wait** *number*
- **damping** *boolean*
- **def-recv-evpn-encap** *keyword*
- **default-route-target** *boolean*
- **description** *string*
- **dynamic-neighbor**
  - **prefix** (*ipv4-prefix* | *ipv6-prefix*)
- **dynamic-neighbor-limit** *number*
- **enforce-first-as** *boolean*
- **error-handling**
  - **update-fault-tolerance** *boolean*
- **export**
  - **policy** *string*
- **extended-nh-encoding**
  - **label-ipv4** *boolean*
  - **vpn-ipv4** *boolean*
- **family**
  - **bgp-ls** *boolean*
  - **evpn** *boolean*
  - **flow-ipv4** *boolean*
  - **flow-ipv6** *boolean*
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **l2-vpn** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
  - **mcast-ipv4** *boolean*
  - **mcast-ipv6** *boolean*
  - **mcast-vpn-ipv4** *boolean*
  - **mcast-vpn-ipv6** *boolean*
  - **mdt-safi** *boolean*
  - **ms-pw** *boolean*
  - **mvpn-ipv4** *boolean*
  - **mvpn-ipv6** *boolean*
  - **route-target** *boolean*
  - **sr-policy-ipv4** *boolean*
  - **vpn-ipv4** *boolean*
  - **vpn-ipv6** *boolean*
- **fast-external-failover** *boolean*
- **graceful-restart**
  - **gr-notification** *boolean*
  - **long-lived**

- — **advertise-stale-to-all-neighbors** *boolean*
- — **advertised-stale-time** *number*
- — **family** *keyword*
  - — **advertised-stale-time** *number*
  - — **helper-override-stale-time** *number*
- — **forwarding-bits-set** *keyword*
- — **helper-override-restart-time** *number*
- — **helper-override-stale-time** *number*
- — **without-no-export** *boolean*
- — **restart-time** *number*
- — **stale-routes-time** *number*

— **hold-time**
- — **minimum-hold-time** *number*
- — **seconds** *number*

— **import**
- — **policy** *string*

— **initial-send-delay-zero** *boolean*
— **keepalive** *number*
— **label-preference** *number*
— **link-bandwidth**
- — **accept-from-ebgp**
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
  - — **label-ipv4** *boolean*
  - — **label-ipv6** *boolean*
  - — **vpn-ipv4** *boolean*
  - — **vpn-ipv6** *boolean*
- — **add-to-received-ebgp**
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
  - — **label-ipv4** *boolean*
  - — **label-ipv6** *boolean*
  - — **vpn-ipv4** *boolean*
  - — **vpn-ipv6** *boolean*
- — **aggregate-used-paths**
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
  - — **label-ipv4** *boolean*
  - — **label-ipv6** *boolean*
  - — **vpn-ipv4** *boolean*
  - — **vpn-ipv6** *boolean*
- — **send-to-ebgp**
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
  - — **label-ipv4** *boolean*
  - — **label-ipv6** *boolean*
  - — **vpn-ipv4** *boolean*
  - — **vpn-ipv6** *boolean*

— **local-address** (*union* | *string*)
— **local-as**
- — **as-number** *number*
- — **prepend-global-as** *boolean*
- — **private** *boolean*

— **local-preference** *number*

- **loop-detect** *keyword*
- **med-out** (*number* | *keyword*)
- **min-route-advertisement** *number*
- **monitor**
  - **admin-state** *keyword*
  - **all-stations** *boolean*
  - **route-monitoring**
    - **post-policy** *boolean*
    - **pre-policy** *boolean*
  - **station** *string*
- **multihop** *number*
- **next-hop-self** *boolean*
- **next-hop-unchanged**
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
- **origin-validation**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
- **outbound-route-filtering**
  - **extended-community**
    - **accept-orf** *boolean*
    - **send-orf**
      - **route-target** *string*
- **passive** *boolean*
- **path-mtu-discovery** *boolean*
- **peer-as** *number*
- **peer-ip-tracking** *boolean*
- **preference** *number*
- **prefix-limit** *keyword*
  - **idle-timeout** *number*
  - **log-only** *boolean*
  - **maximum** *number*
  - **post-import** *boolean*
  - **threshold** *number*
- **remove-private**
  - **limited** *boolean*
  - **skip-peer-as** *boolean*
- **send-communities**
  - **extended** *boolean*
  - **large** *boolean*
  - **standard** *boolean*
- **split-horizon** *boolean*
- **static-group** *boolean*
- **third-party-nexthop** *boolean*
- **ttl-security** *number*
- **type** *keyword*
- **vpn-apply-export** *boolean*
- **vpn-apply-import** *boolean*
- **hold-time**
  - **minimum-hold-time** *number*
  - **seconds** *number*
- **ibgp-multipath** *boolean*

- **import**
  - **policy** *string*
- **initial-send-delay-zero** *boolean*
- **inter-as-vpn** *boolean*
- **keepalive** *number*
- **label-preference** *number*
- **link-state-route-export** *boolean*
- **link-state-route-import** *boolean*
- **local-as**
  - **as-number** *number*
  - **prepend-global-as** *boolean*
  - **private** *boolean*
- **local-preference** *number*
- **loop-detect** *keyword*
- **med-out** (*number* | *keyword*)
- **min-route-advertisement** *number*
- **monitor**
  - **admin-state** *keyword*
  - **all-stations** *boolean*
  - **route-monitoring**
    - **post-policy** *boolean*
    - **pre-policy** *boolean*
  - **station** *string*
- **mp-bgp-keep** *boolean*
- **multihop** *number*
- **multipath**
  - **ebgp** *number*
  - **ibgp** *number*
  - **max-paths** *number*
  - **restrict** *keyword*
- **mvpn-vrf-import-subtype-new** *boolean*
- **neighbor** (*ipv4-address* | *ipv6-address*)
  - **add-paths**
    - **ipv4**
      - **receive** *boolean*
      - **send** *number*
    - **ipv6**
      - **receive** *boolean*
      - **send** *number*
    - **label-ipv4**
      - **receive** *boolean*
      - **send** *number*
    - **label-ipv6**
      - **receive** *boolean*
      - **send** *number*
    - **mcast-vpn-ipv4**
      - **receive** *boolean*
      - **send** *number*
    - **mcast-vpn-ipv6**
      - **receive** *boolean*
      - **send** *number*
    - **mvpn-ipv4**
      - **receive** *boolean*
      - **send** *number*

- — **mvpn-ipv6**
  - — **receive** *boolean*
  - — **send** *number*
- — **vpn-ipv4**
  - — **receive** *boolean*
  - — **send** *number*
- — **vpn-ipv6**
  - — **receive** *boolean*
  - — **send** *number*
- — **admin-state** *keyword*
- — **advertise-inactive** *boolean*
- — **advertise-ipv6-next-hops**
  - — **label-ipv4** *boolean*
  - — **label-ipv6** *boolean*
  - — **vpn-ipv4** *boolean*
  - — **vpn-ipv6** *boolean*
- — **advertise-ldp-prefix** *boolean*
- — **aggregator-id-zero** *boolean*
- — **aigp** *boolean*
- — **asn-4-byte** *boolean*
- — **authentication-key** *encrypted-leaf*
- — **authentication-keychain** *string*
- — **bfd-liveness** *boolean*
- — **capability-negotiation** *boolean*
- — **client-reflect** *boolean*
- — **cluster**
  - — **allow-local-fallback** *boolean*
  - — **cluster-id** *ipv4-address*
  - — **orr-location** *number*
- — **connect-retry** *number*
- — **damp-peer-oscillations**
  - — **error-interval** *number*
  - — **idle-hold-time**
    - — **initial-wait** *number*
    - — **max-wait** *number*
    - — **second-wait** *number*
- — **damping** *boolean*
- — **def-recv-evpn-encap** *keyword*
- — **default-route-target** *boolean*
- — **description** *string*
- — **enforce-first-as** *boolean*
- — **error-handling**
  - — **update-fault-tolerance** *boolean*
- — **export**
  - — **policy** *string*
- — **extended-nh-encoding**
  - — **label-ipv4** *boolean*
  - — **vpn-ipv4** *boolean*
- — **family**
  - — **bgp-ls** *boolean*
  - — **evpn** *boolean*
  - — **flow-ipv4** *boolean*
  - — **flow-ipv6** *boolean*
  - — **ipv4** *boolean*

- — **ipv6** *boolean*
- — **l2-vpn** *boolean*
- — **label-ipv4** *boolean*
- — **label-ipv6** *boolean*
- — **mcast-ipv4** *boolean*
- — **mcast-ipv6** *boolean*
- — **mcast-vpn-ipv4** *boolean*
- — **mcast-vpn-ipv6** *boolean*
- — **mdt-safi** *boolean*
- — **ms-pw** *boolean*
- — **mvpn-ipv4** *boolean*
- — **mvpn-ipv6** *boolean*
- — **route-target** *boolean*
- — **sr-policy-ipv4** *boolean*
- — **vpn-ipv4** *boolean*
- — **vpn-ipv6** *boolean*
- — **fast-external-failover** *boolean*
- — **graceful-restart**
  - — **gr-notification** *boolean*
  - — **long-lived**
    - — **advertise-stale-to-all-neighbors** *boolean*
    - — **advertised-stale-time** *number*
    - — **family** *keyword*
      - — **advertised-stale-time** *number*
      - — **helper-override-stale-time** *number*
    - — **forwarding-bits-set** *keyword*
    - — **helper-override-restart-time** *number*
    - — **helper-override-stale-time** *number*
    - — **without-no-export** *boolean*
  - — **restart-time** *number*
  - — **stale-routes-time** *number*
- — **group** *string*
- — **hold-time**
  - — **minimum-hold-time** *number*
  - — **seconds** *number*
- — **import**
  - — **policy** *string*
- — **initial-send-delay-zero** *boolean*
- — **keepalive** *number*
- — **l2vpn-cisco-interop** *boolean*
- — **label-preference** *number*
- — **link-bandwidth**
  - — **accept-from-ebgp**
    - — **ipv4** *boolean*
    - — **ipv6** *boolean*
    - — **label-ipv4** *boolean*
    - — **label-ipv6** *boolean*
    - — **vpn-ipv4** *boolean*
    - — **vpn-ipv6** *boolean*
  - — **add-to-received-ebgp**
    - — **ipv4** *boolean*
    - — **ipv6** *boolean*
    - — **label-ipv4** *boolean*
    - — **label-ipv6** *boolean*

- **vpn-ipv4** *boolean*
- **vpn-ipv6** *boolean*
- **aggregate-used-paths**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
  - **vpn-ipv4** *boolean*
  - **vpn-ipv6** *boolean*
- **send-to-ebgp**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
  - **vpn-ipv4** *boolean*
  - **vpn-ipv6** *boolean*

- **local-address** (*union* | *string*)
- **local-as**
  - **as-number** *number*
  - **prepend-global-as** *boolean*
  - **private** *boolean*
- **local-preference** *number*
- **loop-detect** *keyword*
- **med-out** (*number* | *keyword*)
- **min-route-advertisement** *number*
- **monitor**
  - **admin-state** *keyword*
  - **all-stations** *boolean*
  - **route-monitoring**
    - **post-policy** *boolean*
    - **pre-policy** *boolean*
  - **station** *string*
- **multihop** *number*
- **next-hop-self** *boolean*
- **next-hop-unchanged**
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
- **origin-validation**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **label-ipv6** *boolean*
- **outbound-route-filtering**
  - **extended-community**
    - **accept-orf** *boolean*
    - **send-orf**
      - **route-target** *string*
- **passive** *boolean*
- **path-mtu-discovery** *boolean*
- **peer-as** *number*
- **peer-creation-type** *keyword*
- **peer-ip-tracking** *boolean*
- **preference** *number*
- **prefix-limit** *keyword*

- — **idle-timeout** *number*
- — **log-only** *boolean*
- — **maximum** *number*
- — **post-import** *boolean*
- — **threshold** *number*
- — **remove-private**
- — **limited** *boolean*
- — **skip-peer-as** *boolean*
- — **send-communities**
- — **extended** *boolean*
- — **large** *boolean*
- — **standard** *boolean*
- — **split-horizon** *boolean*
- — **third-party-nexthop** *boolean*
- — **ttl-security** *number*
- — **type** *keyword*
- — **vpn-apply-export** *boolean*
- — **vpn-apply-import** *boolean*
- — **neighbor-trust**
- — **vpn-ipv4** *boolean*
- — **vpn-ipv6** *boolean*
- — **next-hop-resolution**
- — **labeled-routes**
- — **allow-static** *boolean*
- — **rr-use-route-table** *boolean*
- — **transport-tunnel**
- — **family** *keyword*
- — **enforce-strict-tunnel-tagging** *boolean*
- — **resolution** *keyword*
- — **resolution-filter**
- — **bgp** *boolean*
- — **ldp** *boolean*
- — **mpls-fwd-policy** *boolean*
- — **rib-api** *boolean*
- — **rsvp** *boolean*
- — **sr-isis** *boolean*
- — **sr-ospf** *boolean*
- — **sr-policy** *boolean*
- — **sr-te** *boolean*
- — **udp** *boolean*
- — **policy** *string*
- — **shortcut-tunnel**
- — **family** *keyword*
- — **disallow-igp** *boolean*
- — **enforce-strict-tunnel-tagging** *boolean*
- — **resolution** *keyword*
- — **resolution-filter**
- — **bgp** *boolean*
- — **ldp** *boolean*
- — **mpls-fwd-policy** *boolean*
- — **rib-api** *boolean*
- — **rsvp** *boolean*
- — **sr-isis** *boolean*
- — **sr-ospf** *boolean*

```
                    — sr-policy boolean
                    — sr-te boolean
            — use-bgp-routes boolean
            — weighted-ecmp boolean
        — optimal-route-reflection
            — location number
                — primary-ip-address ipv4-unicast-address
                — primary-ipv6-address ipv6-unicast-address
                — secondary-ip-address ipv4-unicast-address
                — secondary-ipv6-address ipv6-unicast-address
                — tertiary-ip-address ipv4-unicast-address
                — tertiary-ipv6-address ipv6-unicast-address
            — spf-wait
                — initial-wait number
                — max-wait number
                — second-wait number
        — outbound-route-filtering
            — extended-community
                — accept-orf boolean
                — send-orf
                    — route-target string
        — override-tunnel-elc boolean
        — path-mtu-discovery boolean
        — peer-ip-tracking boolean
        — peer-tracking-policy string
        — preference number
        — purge-timer number
        — rapid-update
            — evpn boolean
            — l2-vpn boolean
            — label-ipv4 boolean
            — label-ipv6 boolean
            — mcast-vpn-ipv4 boolean
            — mcast-vpn-ipv6 boolean
            — mdt-safi boolean
            — mvpn-ipv4 boolean
            — mvpn-ipv6 boolean
            — vpn-ipv4 boolean
            — vpn-ipv6 boolean
        — rapid-withdrawal boolean
        — remove-private
            — limited boolean
            — skip-peer-as boolean
        — rib-management
            — ipv4
                — leak-import
                    — policy string
                — route-table-import
                    — policy-name string
            — ipv6
                — leak-import
                    — policy string
                — route-table-import
                    — policy-name string
```

```
            — label-ipv4
                — leak-import
                    — policy string
                — route-table-import
                    — policy-name string
            — label-ipv6
                — route-table-import
                    — policy-name string
        — route-table-install boolean
        — route-target-list string
        — router-id ipv4-address
        — rr-vpn-forwarding boolean
        — send-communities
            — extended boolean
            — large boolean
            — standard boolean
        — split-horizon boolean
        — sr-policy-import boolean
        — third-party-nexthop boolean
        — vpn-apply-export boolean
        — vpn-apply-import boolean
    — class-forwarding boolean
    — confederation
        — confed-as-num number
        — members number
    — description string
    — dhcp-server
        — dhcpv4 string
            — admin-state keyword
            — description string
            — failover
                — admin-state keyword
                — ignore-mclt-on-takeover boolean
                — maximum-client-lead-time number
                — partner-down-delay number
                — peer string
                    — sync-tag string
                — startup-wait-time number
            — force-renews boolean
            — lease-hold
                — additional-scenarios
                    — internal-lease-ipsec boolean
                    — solicited-release boolean
                — time number
            — pool string
                — description string
                — failover
                    — admin-state keyword
                    — ignore-mclt-on-takeover boolean
                    — maximum-client-lead-time number
                    — partner-down-delay number
                    — peer string
                        — sync-tag string
                    — startup-wait-time number
```

- — **max-lease-time** *number*
- — **min-lease-time** *number*
- — **minimum-free**
  - — **absolute** *number*
  - — **event-when-depleted** *boolean*
  - — **percent** *number*
- — **nak-non-matching-subnet** *boolean*
- — **offer-time** *number*
- — **options**
  - — **option** (*number* | *keyword*)
    - — **ascii-string** *string*
    - — **duration** *number*
    - — **empty**
    - — **hex-string** *string*
    - — **ipv4-address** *ipv4-address*
    - — **netbios-node-type** *keyword*
- — **subnet** *ipv4-unicast-prefix*
  - — **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
    - — **failover-control-type** *keyword*
  - — **drain** *boolean*
  - — **exclude-addresses** *ipv4-unicast-address* **end** *ipv4-unicast-address*
  - — **maximum-declined** *number*
  - — **minimum-free**
    - — **absolute** *number*
    - — **event-when-depleted** *boolean*
    - — **percent** *number*
  - — **options**
    - — **option** (*number* | *keyword*)
      - — **ascii-string** *string*
      - — **duration** *number*
      - — **empty**
      - — **hex-string** *string*
      - — **ipv4-address** *ipv4-address*
      - — **netbios-node-type** *keyword*
- — **pool-selection**
  - — **use-gi-address**
    - — **scope** *keyword*
  - — **use-pool-from-client**
    - — **delimiter** *string*
- — **user-db** *string*
- — **user-identification** *keyword*

— **dhcpv6** *string*

- — **admin-state** *keyword*
- — **auto-provisioned** *boolean*
- — **defaults**
  - — **options**
    - — **option** (*number* | *keyword*)
      - — **ascii-string** *string*
      - — **domain-string** *string*
      - — **duration** *number*
      - — **empty**
      - — **hex-string** *string*
      - — **ipv6-address** *ipv6-address*
  - — **preferred-lifetime** *number*

```
        — rebind-time number
        — renew-time number
        — valid-lifetime number
    — description string
    — failover
        — admin-state keyword
        — ignore-mclt-on-takeover boolean
        — maximum-client-lead-time number
        — partner-down-delay number
        — peer string
            — sync-tag string
        — startup-wait-time number
    — ignore-rapid-commit boolean
    — interface-id-mapping boolean
    — lease-hold
        — additional-scenarios
            — internal-lease-ipsec boolean
            — solicited-release boolean
        — time number
    — lease-query boolean
    — pool string
        — delegated-prefix
            — length number
            — maximum number
            — minimum number
        — description string
        — exclude-prefix ipv6-prefix
        — failover
            — admin-state keyword
            — ignore-mclt-on-takeover boolean
            — maximum-client-lead-time number
            — partner-down-delay number
            — peer string
                — sync-tag string
            — startup-wait-time number
        — options
            — option (number | keyword)
                — ascii-string string
                — domain-string string
                — duration number
                — empty
                — hex-string string
                — ipv6-address ipv6-address
        — prefix ipv6-prefix
            — drain boolean
            — failover-control-type keyword
            — options
                — option (number | keyword)
                    — ascii-string string
                    — domain-string string
                    — duration number
                    — empty
                    — hex-string string
                    — ipv6-address ipv6-address
```

```
                    — preferred-lifetime number
                    — prefix-length-threshold number
                        — absolute number
                        — event-when-depleted boolean
                        — percent number
                    — prefix-type
                        — pd boolean
                        — wan-host boolean
                    — rebind-time number
                    — renew-time number
                    — valid-lifetime number
                — prefix-length-threshold number
                    — event-when-depleted boolean
                    — minimum-free-percent number
            — pool-selection
                — use-link-address
                    — scope keyword
                — use-pool-from-client
                    — delimiter string
            — server-id
                — duid-enterprise
                    — ascii-string string
                    — hex-string string
                — duid-link-local
            — user-identification keyword
    — ecmp number
    — entropy-label boolean
    — fib-priority keyword
    — fib-telemetry boolean
    — firewall
        — domain string
            — admin-state keyword
            — dhcpv6-server
                — name string
                — router-instance string
            — nat-group string
            — prefix ipv6-unicast-prefix
                — description string
            — wlan-gw-group string
    — flowspec
        — ip-filter-max-size number
        — ipv6-filter-max-size number
    — gtp
        — s11
            — interface string
                — apn-policy string
            — peer-profile-map
                — prefix (ipv4-prefix | ipv6-prefix)
                    — peer-profile string
        — uplink
            — apn string
            — pdn-type keyword
            — peer-profile-map
                — prefix (ipv4-prefix | ipv6-prefix)
```

```
            — peer-profile string
    — icmp-tunneling boolean
    — igmp
        — admin-state keyword
        — group-if-query-source-address ipv4-unicast-address
        — group-interface interface-name
            — admin-state keyword
            — import-policy string
            — maximum-number-group-sources number
            — maximum-number-groups number
            — maximum-number-sources number
            — mcac
                — bandwidth
                    — mandatory (number | keyword)
                    — total (number | keyword)
                — interface-policy string
                — policy string
            — query-interval number
            — query-last-member-interval number
            — query-response-interval number
            — query-source-address ipv4-unicast-address
            — router-alert-check boolean
            — sub-hosts-only boolean
            — subnet-check boolean
            — version keyword
        — interface interface-name
            — admin-state keyword
            — import-policy string
            — maximum-number-group-sources number
            — maximum-number-groups number
            — maximum-number-sources number
            — mcac
                — bandwidth
                    — mandatory (number | keyword)
                    — total (number | keyword)
                — interface-policy string
                — mc-constraints
                    — level number
                        — bandwidth number
                    — number-down number
                        — level number
                    — use-lag-port-weight boolean
                — policy string
            — query-interval number
            — query-last-member-interval number
            — query-response-interval number
            — redundant-mcast boolean
            — router-alert-check boolean
            — ssm-translate
                — group-range start ipv4-multicast-address end ipv4-multicast-address
                    — source ipv4-unicast-address
            — static
                — group ipv4-multicast-address
                    — source ipv4-unicast-address
```

```
            — starg
          — group-range start ipv4-multicast-address end ipv4-multicast-address step ipv4-address
            — source ipv4-unicast-address
            — starg
        — subnet-check boolean
        — version keyword
      — query-interval number
      — query-last-member-interval number
      — query-response-interval number
      — robust-count number
      — ssm-translate
        — group-range start ipv4-multicast-address end ipv4-multicast-address
          — source ipv4-unicast-address
      — tunnel-interface
        — ldp-p2mp-root string sender-address string
          — admin-state keyword
          — static
            — group ipv4-multicast-address
              — source ipv4-unicast-address
              — starg
        — rsvp-p2mp-root string
          — admin-state keyword
          — static
            — group ipv4-multicast-address
              — source ipv4-unicast-address
              — starg
  — interface interface-name
    — admin-state keyword
    — cflowd-parameters
      — sampling keyword
        — direction keyword
        — type keyword
    — cpu-protection string
    — description string
    — dist-cpu-protection string
    — egress
      — filter
        — ip string
        — ipv6 string
    — eth-cfm
      — mep md-admin-name string ma-admin-name string mep-id number
        — admin-state keyword
        — alarm-notification
          — fng-alarm-time number
          — fng-reset-time number
        — ccm boolean
        — ccm-ltm-priority number
        — ccm-padding-size number
        — ccm-tlv-ignore keyword
        — collect-lmm-fc-stats
          — fc keyword
          — fc-in-profile keyword
        — collect-lmm-stats boolean
        — description string
```

```
            — eth-test
                — bit-error-threshold number
                — test-pattern
                    — crc-tlv boolean
                    — pattern keyword
            — facility-fault boolean
            — grace
                — eth-ed
                    — max-rx-defect-window number
                    — priority number
                    — rx-eth-ed boolean
                    — tx-eth-ed boolean
                — eth-vsm-grace
                    — rx-eth-vsm-grace boolean
                    — tx-eth-vsm-grace boolean
            — lbm-svc-act-responder boolean
            — low-priority-defect keyword
            — mac-address mac-unicast-address
            — one-way-delay-threshold number
    — flavor keyword
    — gre-termination boolean
    — hold-time
        — ipv4
            — down
                — init-only boolean
                — seconds number
            — up
                — seconds number
        — ipv6
            — down
                — init-only boolean
                — seconds number
            — up
                — seconds number
    — if-attribute
        — admin-group string
        — srlg-group string
    — ingress
        — filter
            — ip string
            — ipv6 string
    — ingress-stats boolean
    — ip-mtu number
    — ip-tunnel
        — remote-ip ipv4-unicast-address
    — ipv4
        — allow-directed-broadcasts boolean
        — bfd
            — admin-state keyword
            — echo-receive number
            — multiplier number
            — receive number
            — transmit-interval number
            — type keyword
```

- **dhcp**
  - **admin-state** *keyword*
  - **description** *string*
  - **gi-address** *ipv4-unicast-address*
  - **option-82**
    - **action** *keyword*
    - **circuit-id**
      - **ascii-tuple**
      - **if-name**
      - **ifindex**
      - **none**
      - **port-id**
      - **vlan-ascii-tuple**
    - **remote-id**
      - **ascii-string** *string*
      - **mac**
      - **none**
    - **vendor-specific-option**
      - **client-mac-address** *boolean*
      - **pool-name** *boolean*
      - **port-id** *boolean*
      - **service-id** *boolean*
      - **string** *string*
      - **system-id** *boolean*
  - **python-policy** *string*
  - **relay-plain-bootp** *boolean*
  - **server** *ipv4-unicast-address*
  - **src-ip-addr** *keyword*
  - **trusted** *boolean*
- **icmp**
  - **mask-reply** *boolean*
  - **param-problem**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **redirects**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **ttl-expired**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **unreachables**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
- **ip-helper-address** *ipv4-unicast-address*
- **local-dhcp-server** *string*
- **neighbor-discovery**
  - **learn-unsolicited** *boolean*
  - **limit**
    - **log-only** *boolean*
    - **max-entries** *number*

```
            — threshold number
        — local-proxy-arp boolean
        — proactive-refresh boolean
        — proxy-arp-policy string
        — remote-proxy-arp boolean
        — retry-timer number
        — static-neighbor ipv4-address
            — mac-address mac-address
        — static-neighbor-unnumbered
            — mac-address mac-address
        — timeout number
    — primary
        — address ipv4-unicast-address
        — broadcast keyword
        — prefix-length number
        — track-srrp number
    — qos-route-lookup keyword
    — secondary ipv4-unicast-address
        — broadcast keyword
        — igp-inhibit boolean
        — prefix-length number
        — track-srrp number
    — tcp-mss number
    — unnumbered
        — ip-address ipv4-unicast-address
        — ip-int-name interface-name
        — system
    — urpf-check
        — ignore-default boolean
        — mode keyword
    — vrrp number
        — admin-state keyword
        — authentication-key encrypted-leaf
        — backup ipv4-unicast-address
        — bfd-liveness
            — dest-ip ipv4-address
            — interface-name interface-name
            — service-name string
        — init-delay number
        — mac mac-unicast-address
        — master-int-inherit boolean
        — message-interval number
        — oper-group string
        — owner
        — passive boolean
        — ping-reply boolean
        — policy string
        — preempt boolean
        — priority number
        — ssh-reply boolean
        — standby-forwarding boolean
        — telnet-reply boolean
        — traceroute-reply boolean
— ipv6
```

- **address** *ipv6-address*
  - **duplicate-address-detection** *boolean*
  - **eui-64** *boolean*
  - **prefix-length** *number*
  - **primary-preference** *number*
  - **track-srrp** *number*
- **bfd**
  - **admin-state** *keyword*
  - **echo-receive** *number*
  - **multiplier** *number*
  - **receive** *number*
  - **transmit-interval** *number*
  - **type** *keyword*
- **duplicate-address-detection** *boolean*
- **icmp6**
  - **packet-too-big**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **param-problem**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **redirects**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **time-exceeded**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **unreachables**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
- **link-local-address**
  - **address** *ipv6-address*
  - **duplicate-address-detection** *boolean*
- **local-dhcp-server** *string*
- **neighbor-discovery**
  - **learn-unsolicited** *keyword*
  - **limit**
    - **log-only** *boolean*
    - **max-entries** *number*
    - **threshold** *number*
  - **local-proxy-nd** *boolean*
  - **proactive-refresh** *keyword*
  - **proxy-nd-policy** *string*
  - **reachable-time** *number*
  - **secure-nd**
    - **admin-state** *keyword*
    - **allow-unsecured-msgs** *boolean*
    - **public-key-min-bits** *number*
    - **security-parameter** *number*

- **stale-time** *number*
- **static-neighbor** *ipv6-address*
  - **mac-address** *mac-address*
- **qos-route-lookup** *keyword*
- **tcp-mss** *number*
- **urpf-check**
  - **ignore-default** *boolean*
  - **mode** *keyword*
- **vrrp** *number*
  - **admin-state** *keyword*
  - **backup** *ipv6-address*
  - **bfd-liveness**
    - **dest-ip** *ipv6-address*
    - **interface-name** *interface-name*
    - **service-name** *string*
  - **init-delay** *number*
  - **mac** *mac-unicast-address*
  - **master-int-inherit** *boolean*
  - **message-interval** *number*
  - **oper-group** *string*
  - **owner**
  - **passive** *boolean*
  - **ping-reply** *boolean*
  - **policy** *string*
  - **preempt** *boolean*
  - **priority** *number*
  - **standby-forwarding** *boolean*
  - **telnet-reply** *boolean*
  - **traceroute-reply** *boolean*
- **lag**
  - **link-map-profile** *number*
  - **per-link-hash**
    - **class** *number*
    - **weight** *number*
- **ldp-sync-timer**
  - **end-of-lib** *boolean*
  - **seconds** *number*
- **load-balancing**
  - **ip-load-balancing** *keyword*
  - **lsr-load-balancing** *keyword*
  - **spi-load-balancing** *boolean*
  - **teid-load-balancing** *boolean*
- **loopback**
- **mac** *mac-unicast-address*
- **mac-accounting** *boolean*
- **network-domains**
  - **network-domain** *string*
- **port** (*string* | *keyword*)
- **ptp-hw-assist**
  - **admin-state** *keyword*
- **qos**
  - **egress-instance** *number*
  - **egress-port-redirect-group** *string*
  - **ingress-fp-redirect-group** *string*

- **ingress-instance** *number*
- **network-policy** *string*
- **strip-label** *boolean*
- **tos-marking-state** *keyword*
- **untrusted**
  - **default-forwarding** *keyword*
- **urpf-selected-vprns** *boolean*
- **vas-if-type** *keyword*

- **ipv6**
  - **neighbor-discovery**
    - **reachable-time** *number*
    - **stale-time** *number*
  - **router-advertisement**
    - **dns-options**
      - **rdnss-lifetime** (*keyword* | *number*)
      - **server** *ipv6-address*
    - **interface** *interface-name*
      - **admin-state** *keyword*
      - **current-hop-limit** *number*
      - **dns-options**
        - **include-rdnss** *boolean*
        - **rdnss-lifetime** (*number* | *keyword*)
        - **server** *ipv6-address*
      - **managed-configuration** *boolean*
      - **max-advertisement-interval** *number*
      - **min-advertisement-interval** *number*
      - **mtu** *number*
      - **other-stateful-configuration** *boolean*
      - **prefix** *ipv6-prefix*
        - **autonomous** *boolean*
        - **on-link** *boolean*
        - **preferred-lifetime** (*keyword* | *number*)
        - **valid-lifetime** (*keyword* | *number*)
      - **reachable-time** *number*
      - **retransmit-time** *number*
      - **router-lifetime** *number*
      - **use-virtual-mac** *boolean*
- **isa-service-chaining**
  - **nat-group** *number*
  - **vxlan-vtep-range**
    - **end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **start** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **isis** *number*
  - **admin-state** *keyword*
  - **advertise-passive-only** *boolean*
  - **advertise-router-capability** *keyword*
  - **advertise-tunnel-link** *boolean*
  - **all-l1isis** *mac-address*
  - **all-l2isis** *mac-address*
  - **area-address** *area-address*
  - **authentication-check** *boolean*
  - **authentication-key** *encrypted-leaf*
  - **authentication-keychain** *string*
  - **authentication-type** *keyword*

- **csnp-authentication** *boolean*
- **database-export**
  - **bgp-ls-identifier**
    - **value** *number*
  - **igp-identifier** *number*
- **default-route-tag** *number*
- **entropy-label**
  - **override-tunnel-elc** *boolean*
- **export-limit**
  - **log-percent** *number*
  - **number** *number*
- **export-policy** *string*
- **graceful-restart**
  - **helper-mode** *boolean*
- **hello-authentication** *boolean*
- **hello-padding** *keyword*
- **ignore-attached-bit** *boolean*
- **ignore-lsp-errors** *boolean*
- **ignore-narrow-metric** *boolean*
- **igp-shortcut**
  - **admin-state** *keyword*
  - **tunnel-next-hop**
    - **family** *keyword*
      - **resolution** *keyword*
      - **resolution-filter**
        - **rsvp** *boolean*
        - **sr-te** *boolean*
- **iid-tlv** *boolean*
- **import-policy** *string*
- **interface** *interface-name*
  - **adjacency-set** *string*
  - **admin-state** *keyword*
  - **bfd-liveness**
    - **ipv4**
      - **include-bfd-tlv** *boolean*
    - **ipv6**
      - **include-bfd-tlv** *boolean*
  - **csnp-interval** *number*
  - **default-instance** *boolean*
  - **hello-authentication** *boolean*
  - **hello-authentication-key** *encrypted-leaf*
  - **hello-authentication-keychain** *string*
  - **hello-authentication-type** *keyword*
  - **hello-padding** *keyword*
  - **interface-type** *keyword*
  - **ipv4-adjacency-sid**
    - **label** *number*
  - **ipv4-multicast** *boolean*
  - **ipv4-node-sid**
    - **clear-n-flag** *boolean*
    - **index** *number*
    - **label** *number*
  - **ipv6-adjacency-sid**
    - **label** *number*

- **ipv6-multicast** *boolean*
- **ipv6-node-sid**
  - **clear-n-flag** *boolean*
  - **index** *number*
  - **label** *number*
- **ipv6-unicast** *boolean*
- **level** *keyword*
  - **hello-authentication-key** *encrypted-leaf*
  - **hello-authentication-keychain** *string*
  - **hello-authentication-type** *keyword*
  - **hello-interval** *number*
  - **hello-multiplier** *number*
  - **hello-padding** *keyword*
  - **ipv4-multicast-metric** *number*
  - **ipv6-multicast-metric** *number*
  - **ipv6-unicast-metric** *number*
  - **metric** *number*
  - **passive** *boolean*
  - **priority** *number*
  - **sd-offset** *number*
  - **sf-offset** *number*
- **level-capability** *keyword*
- **load-balancing-weight** *number*
- **loopfree-alternate**
  - **exclude** *boolean*
  - **policy-map**
    - **route-nh-template** *string*
- **lsp-pacing-interval** *number*
- **mesh-group**
  - **blocked**
  - **value** *number*
- **passive** *boolean*
- **retransmit-interval** *number*
- **sid-protection** *boolean*
- **tag** *number*

- **ipv4-multicast-routing** *keyword*
- **ipv4-routing** *boolean*
- **ipv6-multicast-routing** *keyword*
- **ipv6-routing** *keyword*
- **ldp-over-rsvp** *boolean*
- **ldp-sync** *boolean*
- **level** *keyword*
  - **advertise-router-capability** *boolean*
  - **authentication-key** *encrypted-leaf*
  - **authentication-keychain** *string*
  - **authentication-type** *keyword*
  - **bier**
    - **admin-state** *keyword*
    - **template** *string*
  - **csnp-authentication** *boolean*
  - **database-export-exclude** *boolean*
  - **default-ipv4-multicast-metric** *number*
  - **default-ipv6-multicast-metric** *number*
  - **default-ipv6-unicast-metric** *number*

- — **default-metric** *number*
- — **external-preference** *number*
- — **hello-authentication** *boolean*
- — **hello-padding** *keyword*
- — **loopfree-alternate-exclude** *boolean*
- — **lsp-mtu-size** *number*
- — **preference** *number*
- — **psnp-authentication** *boolean*
- — **wide-metrics-only** *boolean*
- — **level-capability** *keyword*
- — **link-group** *string*
  - — **description** *very-long-description*
  - — **level** *keyword*
    - — **ipv4-multicast-metric-offset** *number*
    - — **ipv4-unicast-metric-offset** *number*
    - — **ipv6-multicast-metric-offset** *number*
    - — **ipv6-unicast-metric-offset** *number*
    - — **member** *string*
    - — **oper-members** *number*
    - — **revert-members** *number*
- — **loopfree-alternate**
  - — **exclude**
    - — **prefix-policy** *string*
  - — **remote-lfa**
    - — **max-pq-cost** *number*
    - — **node-protect**
      - — **max-pq-nodes** *number*
  - — **ti-lfa**
    - — **max-sr-frr-labels** *number*
    - — **node-protect**
- — **lsp-lifetime** *number*
- — **lsp-mtu-size** *number*
- — **lsp-refresh**
  - — **half-lifetime** *boolean*
  - — **interval** *number*
- — **multi-topology**
  - — **ipv4-multicast** *boolean*
  - — **ipv6-multicast** *boolean*
  - — **ipv6-unicast** *boolean*
- — **multicast-import**
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
- — **overload**
  - — **max-metric** *boolean*
- — **overload-export-external** *boolean*
- — **overload-export-interlevel** *boolean*
- — **overload-on-boot**
  - — **max-metric** *boolean*
  - — **timeout** *number*
- — **poi-tlv** *boolean*
- — **prefix-attributes-tlv** *boolean*
- — **prefix-limit**
  - — **limit** *number*
  - — **log-only** *boolean*

- **overload-timeout** (*number* | *keyword*)
- **warning-threshold** *number*
- **psnp-authentication** *boolean*
- **reference-bandwidth** *number*
- **rib-priority**
  - **high**
    - **prefix-list** *string*
    - **tag** *number*
- **router-id** *router-id*
- **segment-routing**
  - **adj-sid-hold** (*number* | *keyword*)
  - **adjacency-set** *number*
    - **advertise** *boolean*
    - **family** *keyword*
    - **parallel** *boolean*
    - **sid**
      - **label** *number*
  - **admin-state** *keyword*
  - **entropy-label** *boolean*
  - **export-tunnel-table** *keyword*
  - **mapping-server**
    - **admin-state** *keyword*
    - **node-sid-map** *number*
      - **clear-n-flag** *boolean*
      - **ip-prefix** *ipv4-unicast-prefix*
      - **level-capability** *keyword*
      - **range** *number*
      - **set-flags**
        - **bit-s** *boolean*
  - **prefix-sid-range**
    - **global**
    - **max-index** *number*
    - **start-label** *number*
  - **srlb** *string*
  - **tunnel-mtu** *number*
  - **tunnel-table-pref** *number*
- **standard-multi-instance** *boolean*
- **strict-adjacency-check** *boolean*
- **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
  - **level-capability** *keyword*
  - **route-tag** *number*
- **suppress-attached-bit** *boolean*
- **system-id** *system-id*
- **timers**
  - **lsp-wait**
    - **lsp-initial-wait** *number*
    - **lsp-max-wait** *number*
    - **lsp-second-wait** *number*
  - **spf-wait**
    - **spf-initial-wait** *number*
    - **spf-max-wait** *number*
    - **spf-second-wait** *number*
- **traffic-engineering** *boolean*
- **unicast-import**

- **ipv4** *boolean*
- **ipv6** *boolean*

- **l2tp**
  - **admin-state** *keyword*
  - **avp-hiding** *keyword*
  - **challenge** *boolean*
  - **destruct-timeout** *number*
  - **ethernet-tunnel**
    - **reconnect-timeout** (*number* | *keyword*)
  - **exclude-avps**
    - **calling-number** *boolean*
    - **initial-rx-lcp-conf-req** *boolean*
  - **failover**
    - **recovery-max-session-lifetime** *number*
    - **recovery-method** *keyword*
    - **recovery-time** *number*
    - **track-srrp** *number*
      - **peer** *string*
      - **sync-tag** *string*
  - **group** *string*
    - **admin-state** *keyword*
    - **avp-hiding** *keyword*
    - **challenge** *keyword*
    - **description** *string*
    - **destruct-timeout** *number*
    - **ethernet-tunnel**
      - **reconnect-timeout** (*number* | *keyword*)
    - **failover**
      - **recovery-method** *keyword*
      - **recovery-time** *number*
    - **hello-interval** (*number* | *keyword*)
    - **idle-timeout** (*number* | *keyword*)
    - **l2tpv3**
      - **cookie-length** (*number* | *keyword*)
      - **digest-type** *keyword*
      - **nonce-length** *number*
      - **password** *encrypted-leaf*
      - **private-tcp-mss-adjust** (*number* | *keyword*)
      - **public-tcp-mss-adjust** (*number* | *keyword*)
      - **pw-cap-list**
        - **ethernet** *boolean*
        - **ethernet-vlan** *boolean*
      - **rem-router-id** *ipv4-address*
      - **track-password-change** *boolean*
    - **lac**
      - **df-bit** *keyword*
    - **lns**
      - **lns-group** *string*
      - **load-balance-method** *keyword*
      - **mlppp**
        - **admin-state** *keyword*
        - **endpoint**
          - **ip** (*string* | *keyword*)
          - **mac** (*string* | *keyword*)

- **interleave** *boolean*
- **max-fragment-delay** (*number* | *keyword*)
- **max-links** *number*
- **reassembly-timeout** *number*
- **short-sequence-numbers** *boolean*

ppp
- **authentication** *keyword*
- **authentication-policy** *string*
- **chap-challenge-length**
  - **end** *number*
  - **start** *number*
- **default-group-interface**
  - **interface** *string*
  - **service-name** *service-name*
- **ipcp-subnet-negotiation** *boolean*
- **keepalive**
  - **interval** *number*
  - **multiplier** *number*
- **lcp-force-ack-accm** *boolean*
- **lcp-ignore-magic-numbers** *boolean*
- **mtu** *number*
- **proxy-authentication** *boolean*
- **proxy-lcp** *boolean*
- **user-db** *string*

local-address *ipv4-unicast-address*
local-name *host-name*
max-retries-estab *number*
max-retries-not-estab *number*
password *encrypted-leaf*
protocol *keyword*
radius-accounting-policy *string*
receive-window-size *number*
session-assign-method *keyword*
session-limit (*number* | *keyword*)
tunnel *string*
- **admin-state** *keyword*
- **auto-establish** *boolean*
- **avp-hiding** *keyword*
- **challenge** *keyword*
- **description** *string*
- **destruct-timeout** *number*
- **failover**
  - **recovery-method** *keyword*
  - **recovery-time** *number*
- **hello-interval** (*number* | *keyword*)
- **idle-timeout** (*number* | *keyword*)
- **l2tpv3**
  - **private-tcp-mss-adjust** (*number* | *keyword*)
  - **public-tcp-mss-adjust** (*number* | *keyword*)
- **lac**
  - **df-bit** *keyword*
- **lns**
  - **lns-group** *string*
  - **load-balance-method** *keyword*

- **mlppp**
  - **admin-state** *keyword*
  - **endpoint**
    - **ip** (*string* | *keyword*)
    - **mac** (*string* | *keyword*)
  - **interleave** *keyword*
  - **max-fragment-delay** *number*
  - **max-links** *number*
  - **reassembly-timeout** *number*
  - **short-sequence-numbers** *keyword*
- **ppp**
  - **authentication** *keyword*
  - **authentication-policy** *string*
  - **chap-challenge-length**
    - **end** *number*
    - **start** *number*
  - **default-group-interface**
    - **interface** *string*
    - **service-name** *service-name*
  - **ipcp-subnet-negotiation** *keyword*
  - **keepalive**
    - **interval** *number*
    - **multiplier** *number*
  - **lcp-force-ack-accm** *keyword*
  - **lcp-ignore-magic-numbers** *keyword*
  - **mtu** *number*
  - **proxy-authentication** *keyword*
  - **proxy-lcp** *keyword*
  - **user-db** *string*
- **local-address** *ipv4-unicast-address*
- **local-name** *host-name*
- **max-retries-estab** *number*
- **max-retries-not-estab** *number*
- **password** *encrypted-leaf*
- **peer** *ipv4-unicast-address*
- **preference** *number*
- **radius-accounting-policy** *string*
- **receive-window-size** *number*
- **remote-name** *host-name*
- **session-limit** (*number* | *keyword*)

- **group-session-limit** *number*
- **hello-interval** (*number* | *keyword*)
- **idle-timeout** (*number* | *keyword*)
- **ignore-avps**
  - **sequencing-required** *boolean*
- **l2tpv3**
  - **cookie-length** *number*
  - **digest-type** *keyword*
  - **nonce-length** *number*
  - **password** *encrypted-leaf*
  - **private-tcp-mss-adjust** *number*
  - **public-tcp-mss-adjust** *number*
  - **transport-type**
    - **ip** *boolean*

- **lac**
  - **calling-number-format** *ascii-specification*
  - **cisco-nas-port**
    - **ethernet** *binary-specification*
  - **df-bit** *boolean*
- **local-address** *ipv4-unicast-address*
- **local-name** *host-name*
- **max-retries-estab** *number*
- **max-retries-not-estab** *number*
- **next-attempt** *keyword*
- **password** *encrypted-leaf*
- **peer-address-change-policy** *keyword*
- **radius-accounting-policy** *string*
- **receive-window-size** *number*
- **replace-result-code**
  - **cdn-invalid-dst** *boolean*
  - **cdn-permanent-no-facilities** *boolean*
  - **cdn-temporary-no-facilities** *boolean*
- **rtm-debounce-time** (*number* | *keyword*)
- **session-assign-method** *keyword*
- **session-limit** *number*
- **tunnel-selection-blacklist**
  - **add-tunnel-on**
    - **address-change-timeout** *boolean*
    - **cdn-err-code** *boolean*
    - **cdn-invalid-dst** *boolean*
    - **cdn-permanent-no-facilities** *boolean*
    - **cdn-temporary-no-facilities** *boolean*
    - **stop-ccn-err-code** *boolean*
    - **stop-ccn-other** *boolean*
    - **tx-cdn-not-established-in-time** *boolean*
  - **max-list-length** (*number* | *keyword*)
  - **max-time** *number*
  - **timeout-action** *keyword*
- **tunnel-session-limit** *number*

- **ldp**
  - **admin-state** *keyword*
  - **aggregate-prefix-match**
    - **admin-state** *keyword*
    - **prefix-exclude** *string*
  - **class-forwarding** *keyword*
  - **consider-system-ip-in-gep** *boolean*
  - **egress-statistics**
    - **fec-prefix** (*ipv4-prefix* | *ipv6-prefix*)
      - **accounting-policy** *string*
      - **admin-state** *keyword*
      - **collect-stats** *boolean*
  - **entropy-label-capability** *boolean*
  - **export-policy** *string*
  - **export-tunnel-table** *string*
  - **fast-reroute**
    - **backup-sr-tunnel** *boolean*
  - **fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
    - **advertised-label** *number*

```
        — interface string
        — next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
        — pop boolean
        — swap-label number
    — generate-basic-fec-only boolean
    — graceful-restart
        — helper-mode boolean
        — maximum-recovery-time number
        — neighbor-liveness-time number
    — implicit-null-label boolean
    — import-policy string
    — import-tunnel-table string
    — interface-parameters
        — interface string
            — admin-state keyword
            — bfd-liveness
                — ipv4 boolean
                — ipv6 boolean
            — ipv4
                — admin-state keyword
                — fec-type-capability
                    — p2mp-ipv4 boolean
                    — p2mp-ipv6 boolean
                    — prefix-ipv4 boolean
                    — prefix-ipv6 boolean
                — hello
                    — factor number
                    — timeout number
                — keepalive
                    — factor number
                    — timeout number
                — local-lsr-id
                    — interface-name string
                — transport-address keyword
            — ipv6
                — admin-state keyword
                — fec-type-capability
                    — p2mp-ipv4 boolean
                    — p2mp-ipv6 boolean
                    — prefix-ipv4 boolean
                    — prefix-ipv6 boolean
                — hello
                    — factor number
                    — timeout number
                — keepalive
                    — factor number
                    — timeout number
                — local-lsr-id
                    — format-32bit boolean
                    — interface-name string
                — transport-address keyword
        — ipv4
            — hello
                — factor number
```

- **timeout** *number*
- **keepalive**
  - **factor** *number*
  - **timeout** *number*
- **transport-address** *keyword*

- **ipv6**
  - **hello**
    - **factor** *number*
    - **timeout** *number*
  - **keepalive**
    - **factor** *number*
    - **timeout** *number*
  - **transport-address** *keyword*

- **label-withdrawal-delay** *number*
- **ldp-shortcut**
  - **ipv4** *boolean*
  - **ipv6** *boolean*
- **legacy-ipv4-lsr-interop** *boolean*
- **lsp-bfd** *string*
  - **bfd-liveness** *boolean*
  - **bfd-template** *string*
  - **failure-action** *keyword*
  - **lsp-ping-interval** (*number* | *keyword*)
  - **priority** *number*
  - **source-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **mcast-upstream-asbr-frr** *boolean*
- **mcast-upstream-frr** *boolean*
- **mp-mbb-time** *number*
- **prefer-tunnel-in-tunnel** *boolean*
- **resolve-root-using** *keyword*
- **session-parameters**
  - **peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **adv-adj-addr-only** *boolean*
    - **adv-local-lsr-id** *boolean*
    - **community** *string*
    - **dod-label-distribution** *boolean*
    - **export-addresses** *string*
    - **export-prefixes** *string*
    - **fec-limit**
      - **limit** *number*
      - **log-only** *boolean*
      - **threshold** *number*
    - **fec-type-capability**
      - **p2mp** *boolean*
      - **prefix-ipv4** *boolean*
      - **prefix-ipv6** *boolean*
    - **fec129-cisco-interop** *boolean*
    - **import-prefixes** *string*
    - **pe-id-mac-flush-interop** *boolean*
- **shortcut-local-ttl-propagate** *boolean*
- **shortcut-transit-ttl-propagate** *boolean*
- **targeted-session**
  - **export-prefixes** *string*
  - **import-prefixes** *string*

— **ipv4**
  — **hello**
    — **factor** *number*
    — **timeout** *number*
  — **hello-reduction**
    — **admin-state** *keyword*
    — **factor** *number*
  — **keepalive**
    — **factor** *number*
    — **timeout** *number*
— **ipv6**
  — **hello**
    — **factor** *number*
    — **timeout** *number*
  — **hello-reduction**
    — **admin-state** *keyword*
    — **factor** *number*
  — **keepalive**
    — **factor** *number*
    — **timeout** *number*
— **peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  — **admin-state** *keyword*
  — **bfd-liveness** *boolean*
  — **hello**
    — **factor** *number*
    — **timeout** *number*
  — **hello-reduction**
    — **admin-state** *keyword*
    — **factor** *number*
  — **keepalive**
    — **factor** *number*
    — **timeout** *number*
  — **local-lsr-id**
    — **format-32bit** *boolean*
    — **interface-name** *string*
  — **tunneling**
    — **lsp** *string*
— **peer-template** *string*
  — **admin-state** *keyword*
  — **adv-local-lsr-id** *boolean*
  — **bfd-liveness** *boolean*
  — **community** *string*
  — **hello**
    — **factor** *number*
    — **timeout** *number*
  — **hello-reduction**
    — **admin-state** *keyword*
    — **factor** *number*
  — **keepalive**
    — **factor** *number*
    — **timeout** *number*
  — **local-lsr-id**
    — **interface-name** *string*
  — **tunneling** *boolean*

- **peer-template-map** *string*
  - **policy-map** *string*
- **sdp-auto-targeted-session** *boolean*
- **tcp-session-parameters**
- **peer-transport** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  - **authentication-key** *encrypted-leaf*
  - **authentication-keychain** *string*
  - **path-mtu-discovery** *boolean*
  - **ttl-security** *number*
- **tunnel-down-damp-time** *number*
- **weighted-ecmp** *boolean*
- **leak-export**
- **leak-export-limit** *number*
- **policy-name** *string*
- **lsp-bfd**
- **bfd-sessions** *number*
- **mc-maximum-routes**
- **log-only** *boolean*
- **threshold** *number*
- **value** *number*
- **mld**
- **admin-state** *keyword*
- **group-if-query-source-address** *ipv6-unicast-or-linklocal-address*
- **group-interface** *interface-name*
- **admin-state** *keyword*
- **import-policy** *string*
- **maximum-number-group-sources** *number*
- **maximum-number-groups** *number*
- **maximum-number-sources** *number*
- **mcac**
- **bandwidth**
- **mandatory** (*number* | *keyword*)
- **total** (*number* | *keyword*)
- **interface-policy** *string*
- **policy** *string*
- **query-interval** *number*
- **query-last-member-interval** *number*
- **query-response-interval** *number*
- **query-source-address** *ipv6-unicast-or-linklocal-address*
- **router-alert-check** *boolean*
- **sub-hosts-only** *boolean*
- **subnet-check** *boolean*
- **version** *keyword*
- **interface** *interface-name*
- **admin-state** *keyword*
- **import-policy** *string*
- **maximum-number-group-sources** *number*
- **maximum-number-groups** *number*
- **maximum-number-sources** *number*
- **mcac**
- **bandwidth**
- **mandatory** (*number* | *keyword*)
- **total** (*number* | *keyword*)
- **interface-policy** *string*

```
            — mc-constraints
                — level number
                    — bandwidth number
                — number-down number
                    — level number
                — use-lag-port-weight boolean
            — policy string
        — query-interval number
        — query-last-member-interval number
        — query-response-interval number
        — router-alert-check boolean
        — ssm-translate
            — group-range start ipv6-multicast-address end ipv6-multicast-address
                — source ipv6-unicast-address
        — static
            — group ipv6-multicast-address
                — source ipv6-unicast-address
                — starg
            — group-range start ipv6-multicast-address end ipv6-multicast-address step ipv6-address
                — source ipv6-unicast-address
                — starg
        — version keyword
    — query-interval number
    — query-last-member-interval number
    — query-response-interval number
    — robust-count number
    — ssm-translate
        — group-range start ipv6-multicast-address end ipv6-multicast-address
            — source ipv6-unicast-address
— mpls
    — admin-group-frr boolean
    — admin-state keyword
    — auto-bandwidth-multipliers
        — adjust-multiplier number
        — sample-multiplier number
    — auto-lsp string
        — one-hop boolean
        — policy string
    — aux-stats
        — sr boolean
    — bypass-resignal-timer number
    — class-forwarding-policy string
        — default-set number
        — fc keyword
            — forwarding-set number
    — cspf-on-loose-hop boolean
    — dynamic-bypass boolean
    — entropy-label
        — rsvp-te boolean
        — sr-te boolean
    — exponential-backoff-retry boolean
    — forwarding-policies
        — admin-state keyword
        — forwarding-policy string
```

- **admin-state** *keyword*
- **binding-label** *number*
- **endpoint** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **ingress-statistics**
  - **admin-state** *keyword*
- **metric** *number*
- **next-hop-group** *number*
  - **admin-state** *keyword*
  - **backup-next-hop**
    - **next-hop** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **pushed-labels** *number*
      - **label** *number*
  - **load-balancing-weight** *number*
  - **primary-next-hop**
    - **next-hop** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **pushed-labels** *number*
      - **label** *number*
  - **resolution-type** *keyword*
- **preference** *number*
- **revert-timer** *number*
- **tunnel-table-pref** *number*

- **reserved-label-block** *string*

- **frr-object** *boolean*
- **hold-timer** *number*
- **ingress-statistics**
  - **lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **lsp-name** *string*
    - **accounting-policy** *string*
    - **admin-state** *keyword*
    - **collect-stats** *boolean*
  - **p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
    - **accounting-policy** *string*
    - **admin-state** *keyword*
    - **collect-stats** *boolean*
    - **max-stats** *number*
  - **p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
    - **accounting-policy** *string*
    - **admin-state** *keyword*
    - **collect-stats** *boolean*
    - **max-stats** *number*
- **interface** *string*
  - **admin-group** *string*
  - **admin-state** *keyword*
  - **label-map** *number*
    - **admin-state** *keyword*
    - **pop**
    - **swap**
      - **next-hop** *ipv4-unicast-address*
      - **out-label** (*number* | *keyword*)
  - **srlg-group** *string*
  - **te-metric** *number*
- **least-fill-min-thd** *number*
- **least-fill-reoptim-thd** *number*
- **logger-event-bundling** *boolean*
- **lsp** *string*

- **adaptive** *boolean*
- **admin-state** *keyword*
- **admin-tag** *string*
- **adspec** *boolean*
- **auto-bandwidth**
  - **adjust-down**
    - **bw** *number*
    - **percent** *number*
  - **adjust-up**
    - **bw** *number*
    - **percent** *number*
  - **fc** *keyword*
    - **sampling-weight** *number*
  - **max-bandwidth** *number*
  - **min-bandwidth** *number*
  - **monitor-bandwidth** *boolean*
  - **multipliers**
    - **adjust-multiplier** *number*
    - **sample-multiplier** *number*
  - **overflow-limit**
    - **bw** *number*
    - **number** *number*
    - **threshold** *number*
  - **underflow-limit**
    - **bw** *number*
    - **number** *number*
    - **threshold** *number*
  - **use-last-adj-bw**
    - **secondary-retry-limit** (*number* | *keyword*)
- **bfd**
  - **bfd-liveness** *boolean*
  - **bfd-template** *string*
  - **failure-action** *keyword*
  - **lsp-ping-interval** (*number* | *keyword*)
- **bgp-shortcut** *boolean*
- **bgp-transport-tunnel** *boolean*
- **class-forwarding**
  - **default-lsp** *boolean*
  - **fc** *keyword*
  - **forwarding-set**
    - **policy** *string*
    - **set** *number*
- **class-type** *number*
- **cspf**
  - **use-te-metric** *boolean*
- **egress-statistics**
  - **accounting-policy** *string*
  - **admin-state** *keyword*
  - **collect-stats** *boolean*
- **entropy-label** *keyword*
- **exclude-admin-group** *string*
- **exclude-node** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **fast-reroute**
  - **frr-method** *keyword*

- **hop-limit** *number*
- **node-protect** *boolean*
- **propagate-admin-group** *boolean*

from (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
hop-limit *number*
igp-shortcut
- **admin-state** *keyword*
- **lfa-type** *keyword*
- **relative-metric** *number*

include-admin-group *string*
ingress-statistics
- **accounting-policy** *string*
- **admin-state** *keyword*
- **collect-stats** *boolean*

ldp-over-rsvp *boolean*
least-fill *boolean*
load-balancing-weight *number*
main-ct-retry-limit *number*
max-sr-labels
- **additional-frr-labels** *number*
- **label-stack-size** *number*

metric *number*
p2mp-id *number*
path-profile *number*
- **path-group** *number*

pce-computation *boolean*
pce-control *boolean*
pce-report *keyword*
primary *string*
- **adaptive** *boolean*
- **admin-state** *keyword*
- **backup-class-type** *number*
- **bandwidth** *number*
- **bfd**
  - **bfd-liveness** *boolean*
  - **bfd-template** *string*
  - **lsp-ping-interval** (*number* | *keyword*)
- **class-type** *number*
- **exclude-admin-group**
  - **group** *string*
- **hop-limit** *number*
- **include-admin-group**
  - **group** *string*
- **priority**
  - **hold-priority** *number*
  - **setup-priority** *number*
- **record** *boolean*
- **record-label** *boolean*

primary-p2mp-instance *string*
- **adaptive** *boolean*
- **admin-state** *keyword*
- **bandwidth** *number*
- **exclude-admin-group**
  - **group** *string*

- **hop-limit** *number*
- **include-admin-group**
  - **group** *string*
- **record** *boolean*
- **record-label** *boolean*
- **s2l-path** *string* **to** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  - **admin-state** *keyword*
- **propagate-admin-group** *boolean*
- **retry-limit** *number*
- **retry-timer** *number*
- **revert-timer** *number*
- **rsvp-resv-style** *keyword*
- **secondary** *string*
  - **adaptive** *boolean*
  - **admin-state** *keyword*
  - **bandwidth** *number*
  - **class-type** *number*
  - **exclude-admin-group**
    - **group** *string*
  - **hop-limit** *number*
  - **include-admin-group**
    - **group** *string*
  - **path-preference** *number*
  - **priority**
    - **hold-priority** *number*
    - **setup-priority** *number*
  - **record** *boolean*
  - **record-label** *boolean*
  - **srlg** *boolean*
  - **standby** *boolean*
- **to** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **type** *keyword*
- **vprn-auto-bind** *boolean*

- **lsp-init-retry-timeout** *number*
- **lsp-template** *string*
  - **adaptive** *boolean*
  - **admin-state** *keyword*
  - **admin-tag** *string*
  - **adspec** *boolean*
  - **auto-bandwidth**
    - **adjust-down**
      - **bw** *number*
      - **percent** *number*
    - **adjust-up**
      - **bw** *number*
      - **percent** *number*
    - **fc** *keyword*
      - **sampling-weight** *number*
    - **max-bandwidth** *number*
    - **min-bandwidth** *number*
    - **monitor-bandwidth** *boolean*
    - **multipliers**
      - **adjust-multiplier** *number*
      - **sample-multiplier** *number*

- **overflow-limit**
  - **bw** *number*
  - **number** *number*
  - **threshold** *number*
- **underflow-limit**
  - **bw** *number*
  - **number** *number*
  - **threshold** *number*
- **backup-class-type** *number*
- **bandwidth** *number*
- **bfd**
  - **bfd-liveness** *boolean*
  - **bfd-template** *string*
  - **failure-action** *keyword*
  - **lsp-ping-interval** (*number* | *keyword*)
- **bgp-shortcut** *boolean*
- **bgp-transport-tunnel** *boolean*
- **class-forwarding**
  - **default-lsp** *boolean*
  - **fc** *keyword*
  - **forwarding-set**
    - **policy** *string*
    - **set** *number*
- **class-type** *number*
- **cspf**
  - **admin-state** *keyword*
  - **use-te-metric** *boolean*
- **default-path** *string*
- **egress-statistics**
  - **accounting-policy** *string*
  - **collect-stats** *boolean*
- **entropy-label** *keyword*
- **exclude-admin-group** *string*
- **fast-reroute**
  - **frr-method** *keyword*
  - **hop-limit** *number*
  - **node-protect** *boolean*
  - **propagate-admin-group** *boolean*
- **from** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **hop-limit** *number*
- **igp-shortcut**
  - **admin-state** *keyword*
  - **lfa-type** *keyword*
  - **relative-metric** *number*
- **include-admin-group** *string*
- **ldp-over-rsvp** *boolean*
- **least-fill** *boolean*
- **load-balancing-weight** *number*
- **main-ct-retry-limit** *number*
- **max-sr-labels**
  - **additional-frr-labels** *number*
  - **label-stack-size** *number*
- **metric** *number*
- **pce-report** *keyword*

```
        — priority
            — hold-priority number
            — setup-priority number
        — propagate-admin-group boolean
        — record boolean
        — record-label boolean
        — retry-limit number
        — retry-timer number
        — template-id (number | keyword)
        — type keyword
        — vprn-auto-bind boolean
    — max-bypass-associations number
    — mbb-prefer-current-hops boolean
    — p2mp-resignal-timer number
    — p2mp-s2l-fast-retry number
    — p2p-active-path-fast-retry number
    — path string
        — admin-state keyword
        — hop number
            — ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            — type keyword
    — pce-init-lsp
        — sr-te
            — admin-state keyword
    — pce-report
        — rsvp-te boolean
        — sr-te boolean
    — resignal-timer number
    — retry-on-igp-overload boolean
    — secondary-fast-retry-timer number
    — shortcut-local-ttl-propagate boolean
    — shortcut-transit-ttl-propagate boolean
    — srlg-database
        — router-id ipv4-address
            — admin-state keyword
            — interface ipv4-address srlg-group string
    — srlg-frr keyword
    — static-lsp string
        — admin-state keyword
        — metric number
        — push
            — next-hop ipv4-unicast-address
            — out-label (number | keyword)
        — to ipv4-unicast-address
    — static-lsp-fast-retry number
    — user-srlg-db boolean
— mpls-labels
    — bgp-labels-hold-timer number
    — reserved-label-block string
        — end-label number
        — start-label number
    — sr-labels
        — end number
        — start number
```

```
    — static-label-range number
— mss-adjust
    — nat-group number
    — segment-size number
— mtrace2
    — admin-state keyword
    — udp-port number
— multicast-info-policy string
— nat
    — inside
        — l2-aware
            — subscribers ipv4-prefix-with-host-bits
        — large-scale
            — dnat-only
                — source-prefix-list string
            — dual-stack-lite
                — admin-state keyword
                — deterministic
                    — policy-map ipv6-unicast-prefix
                        — admin-state keyword
                        — map ipv6-prefix to ipv6-prefix
                            — first-outside-address ipv4-address
                        — nat-policy string
                — endpoint ipv6-address
                    — ip-fragmentation keyword
                    — reassembly boolean
                    — tunnel-mtu number
                — max-subscriber-limit number
                — subscriber-prefix-length number
            — nat-policy string
            — nat44
                — destination-prefix ipv4-unicast-prefix
                    — nat-policy string
                — deterministic
                    — policy-map ipv4-unicast-prefix
                        — admin-state keyword
                        — map ipv4-address to ipv4-address
                            — first-outside-address ipv4-address
                        — nat-policy string
                — max-subscriber-limit number
            — nat64
                — admin-state keyword
                — drop-zero-ipv4-checksum boolean
                — insert-ipv6-fragment-header boolean
                — ip-fragmentation keyword
                — ipv6-mtu number
                — prefix ipv6-prefix
                — subscriber-prefix-length number
                — tos
                    — downstream
                        — use-ipv4 boolean
                    — upstream
                        — set-tos (keyword | number)
            — redundancy
```

```
            — peer ipv4-unicast-address
            — peer6 ipv6-unicast-address
            — steering-route (ipv4-prefix | ipv6-prefix)
         — subscriber-identification
            — admin-state keyword
            — attribute
               — type keyword
               — vendor keyword
            — description string
            — drop-unidentified-traffic boolean
            — radius-proxy-server
               — router-instance string
               — server string
   — map
      — map-domain string
   — outside
      — dnat-only
         — route-limit number
      — filters
         — downstream
            — ipv4 string
            — ipv6 string
         — upstream
            — ipv4 string
            — ipv6 string
      — mtu number
      — pool string
         — address-range ipv4-unicast-address end ipv4-unicast-address
            — description string
            — drain boolean
         — admin-state keyword
         — applications
            — agnostic boolean
         — description string
         — l2-aware
            — external-assignment boolean
         — large-scale
            — deterministic
               — port-reservation number
            — redundancy
               — admin-state keyword
               — export-route ipv4-unicast-prefix
               — follow
                  — name string
                  — router-instance string
               — monitor-route ipv4-unicast-prefix
            — subscriber-limit number
         — mode keyword
         — nat-group string
         — port-forwarding
            — dynamic-block-reservation boolean
            — range-end number
         — port-reservation
            — port-blocks number
```

```
            — ports number
         — type keyword
         — watermarks
            — high number
            — low number
         — wlan-gw-group string
   — network-domains
      — network-domain string
         — description string
   — ospf number
      — admin-state keyword
      — advertise-router-capability keyword
      — advertise-tunnel-link boolean
      — area ipv4-address
         — advertise-router-capability boolean
         — area-range ipv4-unicast-prefix
            — advertise boolean
         — blackhole-aggregate boolean
         — database-export-exclude boolean
         — export-policy string
         — import-policy string
         — interface interface-name
            — adjacency-set string
            — adjacency-sid
               — label number
            — admin-state keyword
            — advertise-router-capability boolean
            — advertise-subnet boolean
            — authentication-key encrypted-leaf
            — authentication-keychain string
            — authentication-type keyword
            — bfd-liveness
               — remain-down-on-failure boolean
            — dead-interval number
            — hello-interval number
            — interface-type keyword
            — loopfree-alternate
               — exclude boolean
               — policy-map
                  — route-nh-template string
            — lsa-filter-out keyword
            — message-digest-key number
               — md5 encrypted-leaf
            — metric number
            — mtu number
            — neighbor ipv4-unicast-address
            — node-sid
               — clear-n-flag boolean
               — index number
               — label number
            — passive boolean
            — poll-interval number
            — priority number
            — retransmit-interval number
```

```
        — rib-priority keyword
        — sid-protection boolean
        — transit-delay number
    — loopfree-alternate-exclude boolean
    — nssa
        — area-range ipv4-unicast-prefix
            — advertise boolean
        — originate-default-route
            — adjacency-check boolean
            — type-nssa boolean
        — redistribute-external boolean
        — summaries boolean
    — stub
        — default-metric number
        — summaries boolean
    — virtual-link ipv4-address transit-area string
        — admin-state keyword
        — authentication-key encrypted-leaf
        — authentication-keychain string
        — authentication-type keyword
        — dead-interval number
        — hello-interval number
        — message-digest-key number
            — md5 encrypted-leaf
        — retransmit-interval number
        — transit-delay number
— asbr
    — trace-path (number | keyword)
— compatible-rfc1583 boolean
— database-export
    — bgp-ls-identifier
        — value number
    — igp-identifier number
— entropy-label
    — override-tunnel-elc boolean
— export-limit
    — log-percent number
    — number number
— export-policy string
— external-db-overflow
    — interval number
    — limit number
— external-preference number
— graceful-restart
    — helper-mode boolean
    — strict-lsa-checking boolean
— igp-shortcut
    — admin-state keyword
    — tunnel-next-hop
        — family keyword
            — resolution keyword
            — resolution-filter
                — rsvp boolean
                — sr-te boolean
```

- **import-policy** *string*
- **ldp-over-rsvp** *boolean*
- **ldp-sync** *boolean*
- **loopfree-alternate**
  - **exclude**
    - **prefix-policy** *string*
  - **remote-lfa**
    - **max-pq-cost** *number*
    - **node-protect**
      - **max-pq-nodes** *number*
  - **ti-lfa**
    - **max-sr-frr-labels** *number*
    - **node-protect**
- **multicast-import** *boolean*
- **overload** *boolean*
- **overload-include-ext-2** *boolean*
- **overload-include-stub** *boolean*
- **overload-on-boot**
  - **timeout** *number*
- **preference** *number*
- **reference-bandwidth** *number*
- **rib-priority**
  - **high**
    - **prefix-list** *string*
- **router-id** *router-id*
- **rtr-adv-lsa-limit**
  - **log-only** *boolean*
  - **max-lsa-count** *number*
  - **overload-timeout** (*number* | *keyword*)
  - **warning-threshold** *number*
- **segment-routing**
  - **adj-sid-hold** (*number* | *keyword*)
  - **adjacency-set** *number*
    - **advertise** *boolean*
    - **parallel** *boolean*
    - **sid**
      - **label** *number*
  - **admin-state** *keyword*
  - **backup-node-sid**
    - **index** *number*
    - **ip-prefix** *ipv4-unicast-prefix*
    - **label** *number*
  - **entropy-label** *boolean*
  - **export-tunnel-table** *keyword*
  - **mapping-server**
    - **admin-state** *keyword*
    - **node-sid-map** *number*
      - **ip-prefix** *ipv4-prefix*
      - **range** *number*
      - **scope**
        - **area** *string*
        - **as**
  - **prefix-sid-range**
    - **global**

```
            — max-index number
            — start-label number
         — srlb string
         — tunnel-mtu number
         — tunnel-table-pref number
      — timers
         — incremental-spf-wait number
         — lsa-accumulate number
         — lsa-arrival number
         — lsa-generate
            — lsa-initial-wait number
            — lsa-second-wait number
            — max-lsa-wait number
         — redistribute-delay number
         — spf-wait
            — spf-initial-wait number
            — spf-max-wait number
            — spf-second-wait number
      — traffic-engineering boolean
      — unicast-import boolean
   — ospf3 number
      — admin-state keyword
      — advertise-router-capability keyword
      — area ipv4-address
         — advertise-router-capability boolean
         — area-range (ipv4-prefix | ipv6-prefix)
            — advertise boolean
         — blackhole-aggregate boolean
         — database-export-exclude boolean
         — export-policy string
         — extended-lsa keyword
         — import-policy string
         — interface interface-name
            — admin-state keyword
            — advertise-router-capability boolean
            — bfd-liveness
               — remain-down-on-failure boolean
            — dead-interval number
            — hello-interval number
            — interface-type keyword
            — loopfree-alternate
               — exclude boolean
               — policy-map
                  — route-nh-template string
            — lsa-filter-out keyword
            — metric number
            — mtu number
            — neighbor (ipv4-address-no-zone | ipv6-address-no-zone)
            — node-sid
               — clear-n-flag boolean
               — index number
               — label number
            — passive boolean
            — poll-interval number
```

- — **priority** *number*
- — **retransmit-interval** *number*
- — **rib-priority** *keyword*
- — **sid-protection** *boolean*
- — **transit-delay** *number*
- — **key-rollover-interval** *number*
- — **loopfree-alternate-exclude** *boolean*
- — **nssa**
  - — **area-range** (*ipv4-prefix* | *ipv6-prefix*)
    - — **advertise** *boolean*
  - — **originate-default-route**
    - — **adjacency-check** *boolean*
    - — **type-nssa** *boolean*
  - — **redistribute-external** *boolean*
  - — **summaries** *boolean*
- — **stub**
  - — **default-metric** *number*
  - — **summaries** *boolean*
- — **virtual-link** *ipv4-address* **transit-area** *string*
  - — **admin-state** *keyword*
  - — **dead-interval** *number*
  - — **hello-interval** *number*
  - — **retransmit-interval** *number*
  - — **transit-delay** *number*

— **asbr**
— **database-export**
- — **bgp-ls-identifier**
  - — **value** *number*
- — **igp-identifier** *number*

— **export-limit**
- — **log-percent** *number*
- — **number** *number*

— **export-policy** *string*
— **extended-lsa** *keyword*
— **external-db-overflow**
- — **interval** *number*
- — **limit** *number*

— **external-preference** *number*
— **graceful-restart**
- — **helper-mode** *boolean*
- — **strict-lsa-checking** *boolean*

— **igp-shortcut**
- — **admin-state** *keyword*
- — **tunnel-next-hop**
  - — **family** *keyword*
    - — **resolution** *keyword*
    - — **resolution-filter**
      - — **rsvp** *boolean*
      - — **sr-te** *boolean*

— **import-policy** *string*
— **ldp-sync** *boolean*
— **loopfree-alternate**
- — **exclude**
  - — **prefix-policy** *string*

```
        — remote-lfa
            — max-pq-cost number
        — ti-lfa
            — max-sr-frr-labels number
    — multicast-import boolean
    — overload boolean
    — overload-include-ext-2 boolean
    — overload-include-stub boolean
    — overload-on-boot
        — timeout number
    — preference number
    — reference-bandwidth number
    — rib-priority
        — high
            — prefix-list string
    — router-id router-id
    — rtr-adv-lsa-limit
        — log-only boolean
        — max-lsa-count number
        — overload-timeout (number | keyword)
        — warning-threshold number
    — segment-routing
        — adj-sid-hold (number | keyword)
        — admin-state keyword
        — prefix-sid-range
            — global
            — max-index number
            — start-label number
        — tunnel-mtu number
        — tunnel-table-pref number
    — timers
        — incremental-spf-wait number
        — lsa-accumulate number
        — lsa-arrival number
        — lsa-generate
            — lsa-initial-wait number
            — lsa-second-wait number
            — max-lsa-wait number
        — redistribute-delay number
        — spf-wait
            — spf-initial-wait number
            — spf-max-wait number
            — spf-second-wait number
    — unicast-import boolean
— pcep
    — pcc
        — admin-state keyword
        — dead-timer number
        — keepalive number
        — local-address ipv4-unicast-address
        — max-srte-pce-init-lsps number
        — peer ipv4-unicast-address
            — admin-state keyword
            — preference number
```

- **redelegation-timer** *number*
- **report-path-constraints** *boolean*
- **state-timer**
  - **timer** *number*
  - **timer-action** *keyword*
- **unknown-message-rate** *number*

- **pce**
  - **admin-state** *keyword*
  - **dead-timer** *number*
  - **keepalive** *number*
  - **local-address** *ipv4-unicast-address*
  - **unknown-message-rate** *number*

- **pcp**
  - **server** *string*
    - **admin-state** *keyword*
    - **description** *string*
    - **dual-stack-lite-address** *ipv6-unicast-address*
    - **fwd-inside-router** *string*
    - **interface** *string*
    - **policy** *string*

- **pim**
  - **admin-state** *keyword*
  - **apply-to** *keyword*
  - **import**
    - **join-policy** *string*
    - **register-policy** *string*
  - **interface** *interface-name*
    - **admin-state** *keyword*
    - **assert-period** *number*
    - **bfd-liveness**
      - **ipv4** *boolean*
      - **ipv6** *boolean*
    - **bsm-check-rtr-alert** *boolean*
    - **hello-interval** *number*
    - **hello-multiplier** *number*
    - **improved-assert** *boolean*
    - **instant-prune-echo** *boolean*
    - **ipv4**
      - **monitor-oper-group**
        - **name** *string*
        - **operation** *keyword*
        - **priority-delta** *number*
      - **multicast** *boolean*
    - **ipv6**
      - **monitor-oper-group**
        - **name** *string*
        - **operation** *keyword*
        - **priority-delta** *number*
      - **multicast** *boolean*
    - **max-groups** *number*
    - **mcac**
      - **bandwidth**
        - **mandatory** (*number* | *keyword*)
        - **total** (*number* | *keyword*)

- — **interface-policy** *string*
- — **mc-constraints**
  - — **admin-state** *keyword*
  - — **level** *number*
    - — **bandwidth** *number*
  - — **number-down** *number*
    - — **level** *number*
  - — **use-lag-port-weight** *boolean*
- — **policy** *string*
- — **multicast-senders** *keyword*
- — **p2mp-ldp-tree-join**
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
- — **priority** *number*
- — **sticky-dr**
  - — **priority** *number*
- — **three-way-hello** *boolean*
- — **tracking-support** *boolean*

— **ipv4**
- — **admin-state** *keyword*
- — **gtm**
  - — **auto-discovery** *keyword*
- — **multicast-fast-failover** *boolean*
- — **rpf-table** *keyword*
- — **ssm-assert-compatible-mode** *boolean*
- — **ssm-default-range** *boolean*

— **ipv6**
- — **admin-state** *keyword*
- — **multicast-fast-failover** *boolean*
- — **rpf-table** *keyword*
- — **ssm-default-range** *boolean*

— **lag-usage-optimization** *boolean*
— **mc-ecmp-balance** *boolean*
— **mc-ecmp-balance-hold** *number*
— **mc-ecmp-hashing**
- — **rebalance** *boolean*

— **mdt-spt** *boolean*
— **non-dr-attract-traffic** *boolean*
— **rp**
- — **bootstrap**
  - — **export** *string*
  - — **import** *string*
- — **ipv4**
  - — **anycast** *ipv4-unicast-address* **rp-set-peer** *ipv4-unicast-address*
  - — **auto-rp-discovery** *boolean*
  - — **bsr-candidate**
    - — **address** *ipv4-unicast-address*
    - — **admin-state** *keyword*
    - — **hash-mask-len** *number*
    - — **priority** *number*
  - — **rp-candidate**
    - — **address** *ipv4-unicast-address*
    - — **admin-state** *keyword*
    - — **group-range** *ipv4-multicast-prefix*

```
            — holdtime number
            — priority number
         — static
            — address ipv4-unicast-address
               — group-prefix ipv4-multicast-prefix
               — override boolean
      — ipv6
         — anycast ipv6-unicast-address rp-set-peer ipv6-unicast-address
         — bsr-candidate
            — address ipv6-unicast-address
            — admin-state keyword
            — hash-mask-len number
            — priority number
         — embedded-rp
            — admin-state keyword
            — group-range ipv6-multicast-prefix
         — rp-candidate
            — address ipv6-unicast-address
            — admin-state keyword
            — group-range ipv6-multicast-prefix
            — holdtime number
            — priority number
         — static
            — address ipv6-unicast-address
               — group-prefix ipv6-multicast-prefix
               — override boolean
   — rpfv
      — core boolean
      — mvpn boolean
   — spt-switchover (ipv4-prefix | ipv6-prefix)
      — threshold (number | keyword)
   — ssm-groups
      — group-range (ipv4-prefix | ipv6-prefix)
— radius
   — proxy string
      — admin-state keyword
      — attribute-matching
         — entry number
            — accounting-server-policy string
            — authentication-server-policy string
            — prefix-string string
            — suffix-string string
         — type number
         — vendor (number | keyword)
      — cache
         — admin-state keyword
         — key
            — attribute-type number
            — packet-type keyword
            — vendor (number | keyword)
         — timeout number
         — track-accounting
            — accounting-off boolean
            — accounting-on boolean
```

```
            — interim-update boolean
            — start boolean
            — stop boolean
         — track-authentication
            — accept boolean
         — track-delete-hold-time number
      — defaults
         — accounting-server-policy string
         — authentication-server-policy string
      — description string
      — interface interface-name
      — load-balance-key
         — attribute-1
            — type number
            — vendor (number | keyword)
         — attribute-2
            — type number
            — vendor (number | keyword)
         — attribute-3
            — type number
            — vendor (number | keyword)
         — attribute-4
            — type number
            — vendor (number | keyword)
         — attribute-5
            — type number
            — vendor (number | keyword)
         — source-ip-udp
      — purpose keyword
      — python-policy string
      — secret encrypted-leaf
      — send-accounting-response boolean
      — wlan-gw
         — address ipv4-unicast-address
         — ipv6-address ipv6-unicast-address
      — wlan-gw-group string
   — server string
      — accept-coa boolean
      — acct-port number
      — address (ipv4-address-no-zone | ipv6-address-no-zone)
      — auth-port number
      — description string
      — pending-requests-limit number
      — python-policy string
      — secret encrypted-leaf
— reassembly
   — nat-group number
— rib-api
   — mpls
      — admin-state keyword
      — label-name string
— rip
   — admin-state keyword
   — authentication-key encrypted-leaf
```

- **authentication-type** *keyword*
- **bfd-liveness** *boolean*
- **check-zero** *boolean*
- **description** *string*
- **export-limit**
  - **log-percent** *number*
  - **number** *number*
- **export-policy** *string*
- **group** *string*
  - **admin-state** *keyword*
  - **authentication-key** *encrypted-leaf*
  - **authentication-type** *keyword*
  - **bfd-liveness** *boolean*
  - **check-zero** *boolean*
  - **description** *string*
  - **export-policy** *string*
  - **import-policy** *string*
  - **message-size** *number*
  - **metric-in** *number*
  - **metric-out** *number*
  - **neighbor** *interface-name*
    - **admin-state** *keyword*
    - **authentication-key** *encrypted-leaf*
    - **authentication-type** *keyword*
    - **bfd-liveness** *boolean*
    - **check-zero** *boolean*
    - **description** *string*
    - **export-policy** *string*
    - **import-policy** *string*
    - **message-size** *number*
    - **metric-in** *number*
    - **metric-out** *number*
    - **preference** *number*
    - **receive** *keyword*
    - **send** *keyword*
    - **split-horizon** *boolean*
    - **timers**
      - **flush** *number*
      - **timeout** *number*
      - **update** *number*
    - **unicast-address** *ipv4-unicast-address*
  - **preference** *number*
  - **receive** *keyword*
  - **send** *keyword*
  - **split-horizon** *boolean*
  - **timers**
    - **flush** *number*
    - **timeout** *number*
    - **update** *number*
- **import-policy** *string*
- **message-size** *number*
- **metric-in** *number*
- **metric-out** *number*
- **preference** *number*

- **receive** *keyword*
- **send** *keyword*
- **split-horizon** *boolean*
- **timers**
  - **flush** *number*
  - **timeout** *number*
  - **update** *number*

- **ripng**
  - **admin-state** *keyword*
  - **bfd-liveness** *boolean*
  - **check-zero** *boolean*
  - **description** *string*
  - **export-limit**
    - **log-percent** *number*
    - **number** *number*
  - **export-policy** *string*
  - **group** *string*
    - **admin-state** *keyword*
    - **bfd-liveness** *boolean*
    - **check-zero** *boolean*
    - **description** *string*
    - **export-policy** *string*
    - **import-policy** *string*
    - **message-size** *number*
    - **metric-in** *number*
    - **metric-out** *number*
    - **neighbor** *interface-name*
      - **admin-state** *keyword*
      - **bfd-liveness** *boolean*
      - **check-zero** *boolean*
      - **description** *string*
      - **export-policy** *string*
      - **import-policy** *string*
      - **message-size** *number*
      - **metric-in** *number*
      - **metric-out** *number*
      - **preference** *number*
      - **receive** *keyword*
      - **send** *keyword*
      - **split-horizon** *boolean*
      - **timers**
        - **flush** *number*
        - **timeout** *number*
        - **update** *number*
      - **unicast-address** *ipv6-unicast-address*
    - **preference** *number*
    - **receive** *keyword*
    - **send** *keyword*
    - **split-horizon** *boolean*
    - **timers**
      - **flush** *number*
      - **timeout** *number*
      - **update** *number*
  - **import-policy** *string*

- **message-size** *number*
- **metric-in** *number*
- **metric-out** *number*
- **preference** *number*
- **receive** *keyword*
- **send** *keyword*
- **split-horizon** *boolean*
- **timers**
  - **flush** *number*
  - **timeout** *number*
  - **update** *number*
- **router-id** *router-id*
- **rsvp**
  - **admin-state** *keyword*
  - **dbw-accounting**
    - **dbw-multiplier** *number*
    - **down-threshold**
      - **bw** *number*
      - **percent** *number*
    - **sample-interval** *number*
    - **sample-multiplier** *number*
    - **up-threshold**
      - **bw** *number*
      - **percent** *number*
  - **diffserv-te**
    - **admission-control-model** *keyword*
    - **class-type-bw**
      - **ct0** *number*
      - **ct1** *number*
      - **ct2** *number*
      - **ct3** *number*
      - **ct4** *number*
      - **ct5** *number*
      - **ct6** *number*
      - **ct7** *number*
    - **fc** *keyword*
      - **class-type** *number*
    - **te-class** *number*
      - **class-type** *number*
      - **priority** *number*
  - **entropy-label-capability** *boolean*
  - **graceful-restart**
    - **max-recovery** *number*
    - **max-restart** *number*
  - **graceful-shutdown** *boolean*
  - **implicit-null-label** *boolean*
  - **include-node-id-in-rro** *boolean*
  - **interface** *string*
    - **admin-state** *keyword*
    - **authentication-key** *encrypted-leaf*
    - **authentication-keychain** *string*
    - **bfd-liveness** *boolean*
    - **class-type-bw**
      - **ct0** *number*

```
            — ct1 number
            — ct2 number
            — ct3 number
            — ct4 number
            — ct5 number
            — ct6 number
            — ct7 number
         — dbw-down-threshold
            — bw number
            — percent number
         — dbw-multiplier number
         — dbw-up-threshold
            — bw number
            — percent number
         — graceful-restart-helper-mode boolean
         — graceful-shutdown boolean
         — hello-interval number
         — implicit-null-label boolean
         — refresh-reduction
            — reliable-delivery boolean
         — subscription number
         — te-down-threshold
            — value number
         — te-up-threshold
            — value number
      — keep-multiplier number
      — msg-pacing
         — max-burst number
         — period number
      — p2mp-merge-point-abort-timer number
      — p2p-merge-point-abort-timer number
      — preemption-timer number
      — rapid-retransmit-time number
      — rapid-retry-limit number
      — refresh-reduction-over-bypass boolean
      — refresh-time number
      — te-down-threshold number
      — te-threshold-update
         — on-cac-failure boolean
         — update-timer number
      — te-up-threshold number
   — segment-routing
      — sr-policies
         — admin-state keyword
         — ingress-statistics
            — admin-state keyword
         — reserved-label-block string
         — static-policy string
            — admin-state keyword
            — binding-sid number
            — color number
            — distinguisher number
            — endpoint ipv4-address
            — head-end (union | keyword)
```

```
            — preference number
            — segment-list number
               — admin-state keyword
               — segment number
                  — mpls-label number
               — weight number
      — selective-fib boolean
      — sfm-overload
         — holdoff-time number
      — sgt-qos
         — dot1p
            — application keyword
               — dot1p (keyword | number)
         — dscp
            — application keyword
               — dscp (keyword | number)
            — dscp-map keyword
               — fc keyword
      — static-routes
         — hold-down
            — initial number
            — max-value number
            — multiplier number
         — route (ipv4-prefix | ipv6-prefix) route-type keyword
            — blackhole
               — admin-state keyword
               — community community
               — description description-allow-all-white-spaces
               — dynamic-bgp boolean
               — generate-icmp boolean
               — metric number
               — preference number
               — prefix-list
                  — flag keyword
                  — name string
               — tag number
            — community community
            — indirect (ipv4-address-no-zone | ipv6-address-no-zone)
               — admin-state keyword
               — community community
               — cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
                  — drop-count number
                  — interval number
                  — log boolean
                  — padding-size number
               — description description-allow-all-white-spaces
               — destination-class number
               — metric number
               — preference number
               — prefix-list
                  — flag keyword
                  — name string
               — qos
                  — forwarding-class keyword
```

```
        — priority keyword
    — source-class number
    — tag number
    — tunnel-next-hop
        — disallow-igp boolean
        — resolution keyword
        — resolution-filter
            — ldp boolean
            — mpls-fwd-policy boolean
            — rib-api boolean
            — rsvp-te
                — lsp string
            — sr-isis boolean
            — sr-ospf boolean
            — sr-te
                — lsp string
— interface interface-name
    — admin-state keyword
    — community community
    — cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
        — drop-count number
        — interval number
        — log boolean
        — padding-size number
    — description description-allow-all-white-spaces
    — destination-class number
    — load-balancing-weight number
    — metric number
    — preference number
    — prefix-list
        — flag keyword
        — name string
    — qos
        — forwarding-class keyword
        — priority keyword
    — source-class number
    — tag number
— next-hop (ipv4-address | ipv6-address)
    — admin-state keyword
    — bfd-liveness boolean
    — community community
    — cpe-check (ipv4-address-no-zone | ipv6-address-no-zone)
        — drop-count number
        — interval number
        — log boolean
        — padding-size number
    — description description-allow-all-white-spaces
    — destination-class number
    — ldp-sync boolean
    — load-balancing-weight number
    — metric number
    — preference number
    — prefix-list
        — flag keyword
```

```
            — name string
          — qos
            — forwarding-class keyword
            — priority keyword
          — source-class number
          — tag number
          — validate-next-hop boolean
        — tag number
    — triggered-policy boolean
    — ttl-propagate
      — label-route-local keyword
      — label-route-transit keyword
      — lsr-label-route keyword
      — vprn-local keyword
      — vprn-transit keyword
    — tunnel-interface
      — ldp-p2mp-leaf number sender-address ipv4-unicast-address
        — description string
      — ldp-p2mp-root number sender-address ipv4-unicast-address
        — description string
      — rsvp-p2mp-leaf string sender-address ipv4-unicast-address
        — description string
      — rsvp-p2mp-root string
        — description string
    — twamp-light
      — reflector
        — admin-state keyword
        — description string
        — prefix (ipv4-prefix | ipv6-prefix)
          — description string
        — udp-port number
    — vrgw
      — lanext
        — admin-state keyword
        — vxlan-port number
        — vxlan-vtep-range
          — end (ipv4-address-no-zone | ipv6-address-no-zone)
          — start (ipv4-address-no-zone | ipv6-address-no-zone)
        — wlan-gw-group string
    — weighted-ecmp boolean
    — wlan-gw
      — distributed-subscriber-mgmt
        — ipv6-tcp-mss-adjust number
      — mobility-triggered-accounting
        — admin-state keyword
        — hold-down number
        — include-counters boolean
      — xconnect
        — admin-state keyword
        — tunnel-source-ip ipv6-prefix
        — wlan-gw-group string
    — wpp
      — admin-state keyword
      — portal string
```

- **ack-auth-retry-count** *number*
- **address** *ipv4-unicast-address*
- **admin-state** *keyword*
- **ntf-logout-retry-count** *number*
- **port-format** *keyword*
- **retry-interval** *number*
- **secret** *encrypted-leaf*
- **version** *number*

32.1 router Command Descriptions

router [router-name] *string*

Context	**configure**
Description	Enter the router context
Max. Elements	10240
Introduced	16.0.R1

[router-name] *string*

Context	**configure router** *string*
Description	The administrative name for this virtual router. The router name must be unique among all virtual routers in the system.
String Length	1 to 64
Introduced	16.0.R3
Notes	This element is part of a list key

aggregates

Context	**configure router** *string*
Description	Enter the aggregates context
Introduced	16.0.R1

aggregate [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **aggregates**
Description	Enter the aggregate context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address prefix to match for aggregation
Introduced	16.0.R1
Notes	This element is part of a list key

aggregator

Context **configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)

Description Enter the aggregator context

Introduced 16.0.R1

address *ipv4-unicast-address*

Context **configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*) **aggregator**

Description Aggregator IP address

Introduced 16.0.R1

as-number *number*

Context **configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*) **aggregator**

Description Aggregator Autonomous System Number (ASN)

Range 1 to max

Introduced 16.0.R1

as-set *boolean*

Context **configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)

Description Allow aggregate route as an AS-SET option

Default false

Introduced 16.0.R1

blackhole

Context **configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)

Description Enter the **blackhole** context

Introduced 16.0.R1

generate-icmp *boolean*

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*) **blackhole**
Description	Send ICMP unreachable messages when packets match an aggregate route with black-hole next-hop
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

community *community*

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Community name that is added to aggregate route
String Length	1 to 72
Max. Elements	12
Introduced	16.0.R1
Notes	This element is ordered by user

description *string*

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

indirect (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Address of indirect next hop
Introduced	16.0.R1
Notes	This element is part of a choice

local-preference *number*

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Default local preference if aggregate route is exported and advertised to BGP peers
Range	0 to 4294967295
Introduced	16.0.R1

summary-only *boolean*

Context	**configure router** *string* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Advertise only the aggregate route and not the specific routes that make up the aggregate
Default	false
Introduced	16.0.R1

allow-icmp-redirect *boolean*

Context	**configure router** *string*
Description	Allow ICMP redirects on management interface
Default	false
Introduced	16.0.R1

allow-icmp6-redirect *boolean*

Context	**configure router** *string*
Description	Allow IPv6 ICMP redirects on management interface
Default	false
Introduced	16.0.R1

autonomous-system *number*

Context	**configure router** *string*
Description	Autonomous System number that is advertised to peer
Range	1 to max
Introduced	16.0.R1

bgp

Context **configure router** *string*

Description Enter the bgp context

Introduced 16.0.R1

add-paths

Context **configure router** *string* **bgp**

Description Enter the add-paths context

Introduced 16.0.R1

ipv4

Context **configure router** *string* **bgp add-paths**

Description Enter the ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp add-paths ipv4**

Description Negotiate to receive multiple unlabeled unicast routes per IPv4 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp add-paths ipv4**

Description Maximum number of paths per unlabeled IPv4 unicast prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

ipv6

Context **configure router** *string* **bgp add-paths**

Description Enter the ipv6 context

Introduced 16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp add-paths ipv6**
Description	Negotiate to receive multiple unlabeled unicast routes per IPv6 prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp add-paths ipv6**
Description	Max number of paths per unlabeled unicast IPv6 prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

label-ipv4

Context	**configure router** *string* **bgp add-paths**
Description	Enter the label-ipv4 context
Introduced	16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp add-paths label-ipv4**
Description	Negotiate to receive multiple labeled-unicast routes per IPv4 prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp add-paths label-ipv4**
Description	Maximum number of paths per labeled-unicast IPv4 prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

label-ipv6

Context **configure router** *string* **bgp add-paths**

Description Enter the label-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp add-paths label-ipv6**

Description Negotiate to receive multiple labeled unicast routes per IPv6 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp add-paths label-ipv6**

Description Maximum number of paths per labeled-unicast IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mcast-vpn-ipv4

Context **configure router** *string* **bgp add-paths**

Description Enter the mcast-vpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp add-paths mcast-vpn-ipv4**

Description Negotiate to receive multiple multicast routes per IPv4 VPN prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp add-paths mcast-vpn-ipv4**

Description Maximum number of paths per multicast VPN IPv4 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mcast-vpn-ipv6

Context **configure router** *string* **bgp add-paths**

Description Enter the mcast-vpn-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp add-paths mcast-vpn-ipv6**

Description Negotiate to receive multiple multicast routes per IPv6 VPN prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp add-paths mcast-vpn-ipv6**

Description Maximum number of paths per multicast IPv6 VPN prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mvpn-ipv4

Context **configure router** *string* **bgp add-paths**

Description Enter the mvpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp add-paths mvpn-ipv4**
Description	Negotiate to receive multiple multicast VPN routes per IPv4 prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp add-paths mvpn-ipv4**
Description	Maximum number of paths per multicast VPN IPv4 prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

mvpn-ipv6

Context	**configure router** *string* **bgp add-paths**
Description	Enter the mvpn-ipv6 context
Introduced	16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp add-paths mvpn-ipv6**
Description	Negotiate to receive multiple multicast routes per IPv6 VPN prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp add-paths mvpn-ipv6**
Description	Maximum number of paths per multicast VPN IPv6 prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

vpn-ipv4

Context **configure router** *string* **bgp add-paths**

Description Enter the vpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp add-paths vpn-ipv4**

Description Negotiate to receive VPN-IPv4 routes

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp add-paths vpn-ipv4**

Description Maximum number of paths per VPN-IPv4 NLRI that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

vpn-ipv6

Context **configure router** *string* **bgp add-paths**

Description Enter the vpn-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp add-paths vpn-ipv6**

Description Negotiate to receive multiple VPN-IPv6 routes

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp add-paths vpn-ipv6**
Description Maximum number of paths per VPN-IPv6 NLRI that can be advertised to add-path peers
Range 1 to 16
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **bgp**
Description Administrative state of BGP instance
Default enable
Options enable, disable
Introduced 16.0.R1

advertise-external

Context **configure router** *string* **bgp**
Description Enter the advertise-external context
Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp advertise-external**
Description Support unlabeled unicast IPv4 routes
Default false
Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp advertise-external**
Description Support unlabeled unicast IPv6 routes
Default false
Introduced 16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp advertise-external**
Description	Support labeled unicast IPv4 routes
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context	**configure router** *string* **bgp advertise-external**
Description	Support labeled unicast IPv6 routes
Default	false
Introduced	16.0.R1

advertise-inactive *boolean*

Context	**configure router** *string* **bgp**
Description	Advertise inactive BGP routes to other BGP peers
Default	false
Introduced	16.0.R1

advertise-ipv6-next-hops

Context	**configure router** *string* **bgp**
Description	Enter the advertise-ipv6-next-hops context
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp advertise-ipv6-next-hops**
Description	Advertise labeled IPv4 routes
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp advertise-ipv6-next-hops**
Description Advertise labeled IPv6 routes
Default false
Introduced 16.0.R1

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp advertise-ipv6-next-hops**
Description Advertise VPN IPv4 routes
Default false
Introduced 16.0.R1

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp advertise-ipv6-next-hops**
Description Advertise VPN IPv6 routes
Default false
Introduced 16.0.R1

aggregator-id-zero *boolean*

Context **configure router** *string* **bgp**
Description Set router ID in aggregator path attribute to zero when BGP aggregates routes
Default false
Introduced 16.0.R1

asn-4-byte *boolean*

Context **configure router** *string* **bgp**
Description Allow use of 4-byte ASNs
Default true
Introduced 16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **bgp**
Description	Configure the BGP authentication key for all peers.
String Length	1 to 370
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure router** *string* **bgp**
Description	The value specifies the keychain which will be used to sign and/or authenticate the BGP protocol stream.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

backup-path

Context	**configure router** *string* **bgp**
Description	Enter the backup-path context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **bgp backup-path**
Description	Support unlabeled unicast IPv4 routes
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **bgp backup-path**
Description	Support unlabeled unicast IPv6 routes
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp backup-path**
Description Support labeled unicast IPv4 routes
Default false
Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp backup-path**
Description Support labeled unicast IPv6 routes
Default false
Introduced 16.0.R1

best-path-selection

Context **configure router** *string* **bgp**
Description Enter the best-path-selection context
Introduced 16.0.R1

always-compare-med

Context **configure router** *string* **bgp best-path-selection**
Description Enter the always-compare-med context
Introduced 16.0.R1

med-value *keyword*

Context **configure router** *string* **bgp best-path-selection always-compare-med**
Description MED path attribute
Default off
Options off, missing-med-zero, missing-med-infinity, on
Introduced 16.0.R1

strict-as *boolean*

Context	**configure router** *string* **bgp best-path-selection always-compare-med**
Description	Compare MED path attribute between routes from same neighbor AS only
Default	true
Introduced	16.0.R1

as-path-ignore

Context	**configure router** *string* **bgp best-path-selection**
Description	Enter the as-path-ignore context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support IPv4 address family
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support IPv6 address family
Default	false
Introduced	16.0.R1

l2-vpn *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support L2 VPN address family
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support labeled IPv4 address family
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support labeled IPv6 address family
Default	false
Introduced	16.0.R1

mcast-ipv4 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support multicast IPv4 address family
Default	false
Introduced	16.0.R1

mcast-ipv6 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support multicast IPv6 address family
Default	false
Introduced	16.0.R1

mvpn-ipv4 *boolean*

Context	**configure router** *string* **bgp best-path-selection as-path-ignore**
Description	Support MVPN IPv4 address family
Default	false
Introduced	16.0.R1

mvpn-ipv6 *boolean*

Context **configure router** *string* **bgp best-path-selection as-path-ignore**

Description Support MVPN IPv6 address family

Default false

Introduced 16.0.R1

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp best-path-selection as-path-ignore**

Description Support VPN IPv4 address family

Default false

Introduced 16.0.R1

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp best-path-selection as-path-ignore**

Description Support VPN IPv6 address family

Default false

Introduced 16.0.R1

compare-origin-validation-state *boolean*

Context **configure router** *string* **bgp best-path-selection**

Description Use origin validation state in BGP decision process

Default false

Introduced 16.0.R1

deterministic-med *boolean*

Context **configure router** *string* **bgp best-path-selection**

Description Use deterministic MED for BGP instance

Default false

Introduced 16.0.R1

ebgp-ibgp-equal

Context **configure router** *string* **bgp best-path-selection**

Description Enter the ebgp-ibgp-equal context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp best-path-selection ebgp-ibgp-equal**

Description Load balance eBGP and iBGP paths for unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp best-path-selection ebgp-ibgp-equal**

Description Load balance eBGP and iBGP paths for unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp best-path-selection ebgp-ibgp-equal**

Description Load balance eBGP and iBGP paths for labeled unicast IPv4 routes

Default false

Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp best-path-selection ebgp-ibgp-equal**

Description Load balance eBGP and iBGP paths for labeled unicast IPv6 routes

Default false

Introduced 16.0.R1

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp best-path-selection ebgp-ibgp-equal**
Description	Load balance eBGP and iBGP paths for IPv4 VPN routes
Default	false
Introduced	16.0.R1

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp best-path-selection ebgp-ibgp-equal**
Description	Load balance eBGP and iBGP paths for IPv6 VPN routes
Default	false
Introduced	16.0.R1

ignore-nh-metric *boolean*

Context	**configure router** *string* **bgp best-path-selection**
Description	Ignore next hop metric for best routes of base router BGP instance
Default	false
Introduced	16.0.R1

ignore-router-id

Context	**configure router** *string* **bgp best-path-selection**
Description	Enter the ignore-router-id context
Introduced	16.0.R1

include-internal

Context	**configure router** *string* **bgp best-path-selection ignore-router-id**
Description	Enter the include-internal context
Introduced	16.0.R1

mvpn-ipv4 *boolean*

Context	**configure router** *string* **bgp best-path-selection ignore-router-id include-internal**
Description	Include MVPN IPv4 address family
Default	false
Introduced	16.0.R1

mvpn-ipv6 *boolean*

Context	**configure router** *string* **bgp best-path-selection ignore-router-id include-internal**
Description	Include MVPN IPv6 address family
Default	false
Introduced	16.0.R1

origin-invalid-unusable *boolean*

Context	**configure router** *string* **bgp best-path-selection**
Description	Consider routes with 'Invalid' origin validation state as unusable by best path selection algorithm
Default	false
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure router** *string* **bgp**
Description	Use Bidirectional Forwarding Detection
Default	false
Introduced	16.0.R1

client-reflect *boolean*

Context	**configure router** *string* **bgp**
Description	Enable client reflection of routes by the route reflector
Default	true
Introduced	16.0.R1

cluster

Context **configure router** *string* **bgp**

Description Enter the cluster context

Introduced 16.0.R1

allow-local-fallback *boolean*

Context **configure router** *string* **bgp cluster**

Description Allow fallback to RR default location when no BGP routes reachable from ORR location

Default false

Introduced 16.0.R1

cluster-id *ipv4-address*

Context **configure router** *string* **bgp cluster**

Description Cluster ID for route reflector server

Introduced 16.0.R1

orr-location *number*

Context **configure router** *string* **bgp cluster**

Description Optimal route reflection location for cluster ID

Range 1 to 16

Introduced 16.0.R1

connect-retry *number*

Context **configure router** *string* **bgp**

Description BGP connect retry timer value

Range 1 to 65535

Default 120

Introduced 16.0.R1

damp-peer-oscillations

Context	**configure router** *string* **bgp**
Description	Enter the damp-peer-oscillations context
Introduced	16.0.R1

error-interval *number*

Context	**configure router** *string* **bgp damp-peer-oscillations**
Description	Error free interval after session reset, to return idle-hold-time to initial-wait
Range	0 to 2048
Default	30
Introduced	16.0.R1

idle-hold-time

Context	**configure router** *string* **bgp damp-peer-oscillations**
Description	Enter the idle-hold-time context
Introduced	16.0.R1

initial-wait *number*

Context	**configure router** *string* **bgp damp-peer-oscillations idle-hold-time**
Description	Time a session remains in idle state after session stabilized
Range	0 to 2048
Default	0
Introduced	16.0.R1

max-wait *number*

Context	**configure router** *string* **bgp damp-peer-oscillations idle-hold-time**
Description	Maximum session idle time after repeated instability
Range	1 to 2048
Default	60
Introduced	16.0.R1

second-wait *number*

Context	**configure router** *string* **bgp damp-peer-oscillations idle-hold-time**
Description	Time that doubles after each session failure within relatively short time
Range	1 to 2048
Default	5
Introduced	16.0.R1

damping *boolean*

Context	**configure router** *string* **bgp**
Description	Use BGP route damping for learned routes defined within the route policy
Default	false
Introduced	16.0.R1

def-recv-evpn-encap *keyword*

Context	**configure router** *string* **bgp**
Description	Default encapsulation type when EVPN route is received without BGP encapsulation extended community
Default	mpls
Options	mpls, vxlan
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **bgp**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dynamic-neighbor-limit *number*

Context	**configure router** *string* **bgp**
Description	Dynamic peer limit for BGP instance
Range	1 to 8192
Introduced	16.0.R1

enforce-first-as *boolean*

Context	**configure router** *string* **bgp**
Description	Compare most recent ASN in AS_PATH attribute of each route to configured peer AS of session for match
Default	false
Introduced	16.0.R1

error-handling

Context	**configure router** *string* **bgp**
Description	Enter the error-handling context
Introduced	16.0.R1

update-fault-tolerance *boolean*

Context	**configure router** *string* **bgp error-handling**
Description	Consider non-critical errors as treat-as-withdraw and do not trigger session reset
Default	false
Introduced	16.0.R1

export

Context	**configure router** *string* **bgp**
Description	Enter the export context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp export**
Description	Export policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

extended-nh-encoding

Context **configure router** *string* **bgp**

Description Enter the extended-nh-encoding context

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp extended-nh-encoding**

Description Advertise extended NH encoding capability for labeled IPv4 routes

Default false

Introduced 16.0.R1

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp extended-nh-encoding**

Description Advertise extended NH encoding capability for VPN IPv4 routes

Default false

Introduced 16.0.R1

family

Context **configure router** *string* **bgp**

Description Enter the family context

Introduced 16.0.R1

bgp-ls *boolean*

Context **configure router** *string* **bgp family**

Description Support BGP-LS address family

Default false

Introduced 16.0.R1

evpn *boolean*

Context **configure router** *string* **bgp family**
Description Support EVPN address family
Default false
Introduced 16.0.R1

flow-ipv4 *boolean*

Context **configure router** *string* **bgp family**
Description Support flowspec IPv4 address family
Default false
Introduced 16.0.R1

flow-ipv6 *boolean*

Context **configure router** *string* **bgp family**
Description Support flowspec IPv6 address family
Default false
Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp family**
Description Support IPv4 address family
Default true
Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp family**
Description Support IPv6 address family
Default false
Introduced 16.0.R1

l2-vpn *boolean*

Context **configure router** *string* **bgp family**

Description Support L2 VPN address family

Default false

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp family**

Description Support labeled IPv4 address family

Default false

Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp family**

Description Support labeled IPv6 address family

Default false

Introduced 16.0.R1

mcast-ipv4 *boolean*

Context **configure router** *string* **bgp family**

Description Support multicast IPv4 address family

Default false

Introduced 16.0.R1

mcast-ipv6 *boolean*

Context **configure router** *string* **bgp family**

Description Support multicast IPv6 address family

Default false

Introduced 16.0.R1

mcast-vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp family**
Description	Support multicast VPN IPv4 address family
Default	false
Introduced	16.0.R1

mcast-vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp family**
Description	Support multicast VPN IPv6 address family
Default	false
Introduced	16.0.R1

mdt-safi *boolean*

Context	**configure router** *string* **bgp family**
Description	Support Multicast Distribution Tree (MDT) SAFI address family
Default	false
Introduced	16.0.R1

ms-pw *boolean*

Context	**configure router** *string* **bgp family**
Description	Support multi-segment pseudowire address family
Default	false
Introduced	16.0.R1

mvpn-ipv4 *boolean*

Context	**configure router** *string* **bgp family**
Description	Support MVPN IPv4 address family
Default	false
Introduced	16.0.R1

mvpn-ipv6 *boolean*

Context	**configure router** *string* **bgp family**
Description	Support MVPN IPv6 address family
Default	false
Introduced	16.0.R1

route-target *boolean*

Context	**configure router** *string* **bgp family**
Description	Support address family for RT constrain routes
Default	false
Introduced	16.0.R1

sr-policy-ipv4 *boolean*

Context	**configure router** *string* **bgp family**
Description	Advertise capability for AFI1/SAFI73, BGP routes that encode an SR policy to an IPv4 destination
Default	false
Introduced	16.0.R1

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp family**
Description	Support VPN IPv4 address family
Default	false
Introduced	16.0.R1

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp family**
Description	Support VPN IPv6 address family
Default	false
Introduced	16.0.R1

fast-external-failover *boolean*

Context	**configure router** *string* **bgp**
Description	Specifies whether the router should drop an external BGP session immediately when the local interface goes down, or whether the BGP session should be kept up until the holdtime expires.
Default	true
Introduced	16.0.R1

flowspec

Context	**configure router** *string* **bgp**
Description	Enter the flowspec context
Introduced	16.0.R1

validate-dest-prefix *boolean*

Context	**configure router** *string* **bgp flowspec**
Description	Validate received IPv4 and IPv6 flowspec routes that contain destination prefix
Default	false
Introduced	16.0.R1

validate-redirect-ip *boolean*

Context	**configure router** *string* **bgp flowspec**
Description	Validate the redirect-to-IPv4 action attached to flowspec IPv4 routes received by the BGP instance
Default	false
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **bgp**
Description	Enter the graceful-restart context
Introduced	16.0.R1

gr-notification *boolean*

Context	**configure router** *string* **bgp graceful-restart**
Description	Enable graceful restart capability indicating support for NOTIFICATION messages
Default	false
Introduced	16.0.R1

long-lived

Context	**configure router** *string* **bgp graceful-restart**
Description	Enter the long-lived context
Introduced	16.0.R1

advertise-stale-to-all-neighbors *boolean*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	Advertise BGP routes marked as LLGR stale to BGP peers
Default	false
Introduced	16.0.R1

advertised-stale-time *number*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	Long-lived stale time that is advertised by router in its LLGR capability
Range	0 to 16777215
Default	86400
Introduced	16.0.R1

family [family-type] *keyword*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure router** *string* **bgp graceful-restart long-lived family** *keyword*
Description	Address family type for LLGR
Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, l2-vpn, flow-ipv4, route-target, flow-ipv6, label-ipv4, label-ipv6
Introduced	16.0.R1
Notes	This element is part of a list key

advertised-stale-time *number*

Context	**configure router** *string* **bgp graceful-restart long-lived family** *keyword*
Description	Long-lived stale time that is advertised by router in its LLGR capability
Range	0 to 16777215
Default	86400
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure router** *string* **bgp graceful-restart long-lived family** *keyword*
Description	Locally-imposed LLGR stale time
Range	0 to 16777215
Introduced	16.0.R1

forwarding-bits-set *keyword*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	BGP LLGR forwarding bit behavior for F bit in AFI or SAFI
Default	none
Options	none, all, non-fwd
Introduced	16.0.R1

helper-override-restart-time *number*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	Locally-imposed restart time for all AFI/SAFI included in the peer's GR capability
Range	0 to 4095
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	Locally-imposed LLGR stale time
Range	0 to 16777215
Introduced	16.0.R1

without-no-export *boolean*

Context	**configure router** *string* **bgp graceful-restart long-lived**
Description	Allow LLGR stale routes to be advertised to any peer that did not signal the LLGR capability
Default	false
Introduced	16.0.R1

restart-time *number*

Context	**configure router** *string* **bgp graceful-restart**
Description	BGP graceful restart time
Range	0 to 4095
Default	120
Introduced	16.0.R1

stale-routes-time *number*

Context	**configure router** *string* **bgp graceful-restart**
Description	Maximum time that stale routes maintain after graceful restart is initiated
Range	1 to 3600
Default	360
Introduced	16.0.R1

group [group-name] *string*

Context	**configure router** *string* **bgp**
Description	Enter the group context
Introduced	16.0.R1

[group-name] *string*

Context	**configure router** *string* **bgp group** *string*
Description	BGP peer group
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

add-paths

Context	**configure router** *string* **bgp group** *string*
Description	Enter the add-paths context
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **bgp group** *string* **add-paths**
Description	Enter the ipv4 context
Introduced	16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp group** *string* **add-paths ipv4**
Description	Negotiate to receive multiple unlabeled unicast routes per IPv4 prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp group** *string* **add-paths ipv4**
Description	Maximum number of paths per unlabeled IPv4 unicast prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

ipv6

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp group** *string* **add-paths ipv6**

Description Negotiate to receive multiple unlabeled unicast routes per IPv6 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp group** *string* **add-paths ipv6**

Description Maximum number of paths per unlabeled unicast IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

label-ipv4

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the label-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp group** *string* **add-paths label-ipv4**

Description Negotiate to receive multiple labeled-unicast routes per IPv4 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp group** *string* **add-paths label-ipv4**

Description Maximum number of paths per labeled-unicast IPv4 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

label-ipv6

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the label-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp group** *string* **add-paths label-ipv6**

Description Negotiate to receive multiple labeled-unicast routes per IPv6 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp group** *string* **add-paths label-ipv6**

Description Maximum number of paths per labeled-unicast IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mcast-vpn-ipv4

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the mcast-vpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp group** *string* **add-paths mcast-vpn-ipv4**
Description	Negotiate to receive multiple multicast routes per IPv4 VPN prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp group** *string* **add-paths mcast-vpn-ipv4**
Description	Maximum number of paths per multicast VPN IPv4 prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

mcast-vpn-ipv6

Context	**configure router** *string* **bgp group** *string* **add-paths**
Description	Enter the mcast-vpn-ipv6 context
Introduced	16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp group** *string* **add-paths mcast-vpn-ipv6**
Description	Negotiate to receive multiple multicast routes per IPv6 VPN prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp group** *string* **add-paths mcast-vpn-ipv6**
Description	Maximum number of paths per multicast IPv6 VPN prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

mvpn-ipv4

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the mvpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp group** *string* **add-paths mvpn-ipv4**

Description Negotiate to receive multiple multicast VPN routes per IPv4 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp group** *string* **add-paths mvpn-ipv4**

Description Maximum number of paths per multicast VPN IPv4 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mvpn-ipv6

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the mvpn-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp group** *string* **add-paths mvpn-ipv6**

Description Negotiate to receive multiple multicast routes per IPv6 VPN prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp group** *string* **add-paths mvpn-ipv6**

Description Maximum number of paths per multicast VPN IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

vpn-ipv4

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the vpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp group** *string* **add-paths vpn-ipv4**

Description Negotiate to receive VPN-IPv4 routes

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp group** *string* **add-paths vpn-ipv4**

Description Maximum number of paths per VPN-IPv4 NLRI that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

vpn-ipv6

Context **configure router** *string* **bgp group** *string* **add-paths**

Description Enter the vpn-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp group** *string* **add-paths vpn-ipv6**
Description	Negotiate to receive multiple VPN-IPv6 routes
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp group** *string* **add-paths vpn-ipv6**
Description	Maximum number of paths per VPN-IPv6 NLRI that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **bgp group** *string*
Description	Administrative state of BGP group
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-inactive *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Advertise inactive BGP routes to other BGP peers
Introduced	16.0.R1

advertise-ipv6-next-hops

Context	**configure router** *string* **bgp group** *string*
Description	Enter the advertise-ipv6-next-hops context
Introduced	16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **advertise-ipv6-next-hops**

Description Advertise labeled IPv4 routes

Default false

Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **advertise-ipv6-next-hops**

Description Advertise labeled IPv6 routes

Default false

Introduced 16.0.R1

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **advertise-ipv6-next-hops**

Description Advertise VPN IPv4 routes

Default false

Introduced 16.0.R1

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **advertise-ipv6-next-hops**

Description Advertise VPN IPv6 routes

Default false

Introduced 16.0.R1

aggregator-id-zero *boolean*

Context **configure router** *string* **bgp group** *string*

Description Set router ID in aggregator path attribute to zero when BGP aggregates routes

Introduced 16.0.R1

aigp *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Add Accumalated IGP (AIGP) attribute to advertised routes
Default	false
Introduced	16.0.R1

asn-4-byte *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Allow use of 4-byte ASNs
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **bgp group** *string*
Description	Configure the BGP authentication key for all peers.
String Length	1 to 370
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure router** *string* **bgp group** *string*
Description	The value specifies the keychain which will be used to sign and/or authenticate the BGP protocol stream.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

bfd-liveness *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Use Bidirectional Forwarding Detection
Introduced	16.0.R1

capability-negotiation *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Enable capability negotiation
Default	true
Introduced	16.0.R1

client-reflect *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Enable client reflection of routes by the route reflector
Introduced	16.0.R1

cluster

Context	**configure router** *string* **bgp group** *string*
Description	Enter the cluster context
Introduced	16.0.R1

allow-local-fallback *boolean*

Context	**configure router** *string* **bgp group** *string* **cluster**
Description	Allow fallback to RR default location when no BGP routes reachable from ORR location
Default	false
Introduced	16.0.R1

cluster-id *ipv4-address*

Context	**configure router** *string* **bgp group** *string* **cluster**
Description	Cluster ID for route reflector server
Introduced	16.0.R1

orr-location *number*

Context	**configure router** *string* **bgp group** *string* **cluster**
Description	Optimal route reflection location for cluster ID
Range	1 to 16
Introduced	16.0.R1

connect-retry *number*

Context **configure router** *string* **bgp group** *string*

Description BGP connect retry timer value

Range 1 to 65535

Introduced 16.0.R1

damp-peer-oscillations

Context **configure router** *string* **bgp group** *string*

Description Enter the damp-peer-oscillations context

Introduced 16.0.R1

error-interval *number*

Context **configure router** *string* **bgp group** *string* **damp-peer-oscillations**

Description Error free interval after session reset, to return idle-hold-time to initial-wait

Range 0 to 2048

Default 30

Introduced 16.0.R1

idle-hold-time

Context **configure router** *string* **bgp group** *string* **damp-peer-oscillations**

Description Enter the idle-hold-time context

Introduced 16.0.R1

initial-wait *number*

Context **configure router** *string* **bgp group** *string* **damp-peer-oscillations idle-hold-time**

Description Time a session remains in idle state after session stabilized

Range 0 to 2048

Default 0

Introduced 16.0.R1

max-wait *number*

Context	**configure router** *string* **bgp group** *string* **damp-peer-oscillations idle-hold-time**
Description	Maximum session idle time after repeated instability
Range	1 to 2048
Default	60
Introduced	16.0.R1

second-wait *number*

Context	**configure router** *string* **bgp group** *string* **damp-peer-oscillations idle-hold-time**
Description	Time that doubles after each session failure within relatively short time
Range	1 to 2048
Default	5
Introduced	16.0.R1

damping *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Use BGP route damping for learned routes defined within the route policy
Introduced	16.0.R1

def-recv-evpn-encap *keyword*

Context	**configure router** *string* **bgp group** *string*
Description	Default encapsulation type when EVPN route is received without BGP encapsulation extended community
Options	mpls, vxlan
Introduced	16.0.R1

default-route-target *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Send default RTC route to peers in BGP peer group
Default	false
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **bgp group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dynamic-neighbor

Context	**configure router** *string* **bgp group** *string*
Description	Enter the dynamic-neighbor context
Introduced	16.0.R1

prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **bgp group** *string* **dynamic-neighbor**
Description	Enter the prefix context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **bgp group** *string* **dynamic-neighbor prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Prefix for dynamic BGP sessions in peer group
Introduced	16.0.R1
Notes	This element is part of a list key

dynamic-neighbor-limit *number*

Context	**configure router** *string* **bgp group** *string*
Description	Dynamic peer limit for BGP instance
Range	1 to 8192
Introduced	16.0.R1

enforce-first-as *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Compare most recent ASN in AS_PATH attribute of each route to configured peer AS of session for match
Introduced	16.0.R1

error-handling

Context	**configure router** *string* **bgp group** *string*
Description	Enter the error-handling context
Introduced	16.0.R1

update-fault-tolerance *boolean*

Context	**configure router** *string* **bgp group** *string* **error-handling**
Description	Consider non-critical errors as treat-as-withdraw and do not trigger session reset
Introduced	16.0.R1

export

Context	**configure router** *string* **bgp group** *string*
Description	Enter the export context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp group** *string* **export**
Description	Import policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

extended-nh-encoding

Context **configure router** *string* **bgp group** *string*

Description Enter the extended-nh-encoding context

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **extended-nh-encoding**

Description Advertise extended NH encoding capability for labeled IPv4 routes

Default false

Introduced 16.0.R1

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **extended-nh-encoding**

Description Advertise extended NH encoding capability for VPN IPv4 routes

Default false

Introduced 16.0.R1

family

Context **configure router** *string* **bgp group** *string*

Description Enter the family context

Introduced 16.0.R1

bgp-ls *boolean*

Context **configure router** *string* **bgp group** *string* **family**

Description Support BGP-LS address family

Default false

Introduced 16.0.R1

evpn *boolean*

Context **configure router** *string* **bgp group** *string* **family**
Description Support EVPN address family
Default false
Introduced 16.0.R1

flow-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **family**
Description Support flowspec IPv4 address family
Default false
Introduced 16.0.R1

flow-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **family**
Description Support flowspec IPv6 address family
Default false
Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **family**
Description Support IPv4 address family
Default false
Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **family**
Description Support IPv6 address family
Default false
Introduced 16.0.R1

l2-vpn *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support L2 VPN address family
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support labeled IPv4 address family
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support labeled IPv6 address family
Default	false
Introduced	16.0.R1

mcast-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support multicast IPv4 address family
Default	false
Introduced	16.0.R1

mcast-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support multicast IPv6 address family
Default	false
Introduced	16.0.R1

mcast-vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support multicast VPN IPv4 address family
Default	false
Introduced	16.0.R1

mcast-vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support multicast VPN IPv6 address family
Default	false
Introduced	16.0.R1

mdt-safi *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support Multicast Distribution Tree (MDT) SAFI address family
Default	false
Introduced	16.0.R1

ms-pw *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support multi-segment pseudowire address family
Default	false
Introduced	16.0.R1

mvpn-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support MVPN IPv4 address family
Default	false
Introduced	16.0.R1

mvpn-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support MVPN IPv6 address family
Default	false
Introduced	16.0.R1

route-target *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support address family for RT constrain routes
Default	false
Introduced	16.0.R1

sr-policy-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Advertise capability for AFI1/SAFI73, BGP routes that encode an SR policy to an IPv4 destination
Default	false
Introduced	16.0.R1

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support VPN IPv4 address family
Default	false
Introduced	16.0.R1

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **family**
Description	Support VPN IPv6 address family
Default	false
Introduced	16.0.R1

fast-external-failover *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Specifies whether the router should drop an external BGP session immediately when the local interface goes down, or whether the BGP session should be kept up until the holdtime expires.
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **bgp group** *string*
Description	Enter the graceful-restart context
Introduced	16.0.R1

gr-notification *boolean*

Context	**configure router** *string* **bgp group** *string* **graceful-restart**
Description	Enable graceful restart capability indicating support for NOTIFICATION messages
Default	false
Introduced	16.0.R1

long-lived

Context	**configure router** *string* **bgp group** *string* **graceful-restart**
Description	Enter the long-lived context
Introduced	16.0.R1

advertise-stale-to-all-neighbors *boolean*

Context	**configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description	Advertise BGP routes marked as LLGR stale to BGP peers
Default	false
Introduced	16.0.R1

advertised-stale-time *number*

Context **configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description Long-lived stale time that is advertised by router in its LLGR capability
Range 0 to 16777215
Default 86400
Introduced 16.0.R1

family [family-type] *keyword*

Context **configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description Enter the family context
Introduced 16.0.R1

[family-type] *keyword*

Context **configure router** *string* **bgp group** *string* **graceful-restart long-lived family** *keyword*
Description Address family type for LLGR
Options ipv4, vpn-ipv4, ipv6, vpn-ipv6, l2-vpn, flow-ipv4, route-target, flow-ipv6, label-ipv4, label-ipv6
Introduced 16.0.R1
Notes This element is part of a list key

advertised-stale-time *number*

Context **configure router** *string* **bgp group** *string* **graceful-restart long-lived family** *keyword*
Description Long-lived stale time that is advertised by router in its LLGR capability
Range 0 to 16777215
Default 86400
Introduced 16.0.R1

helper-override-stale-time *number*

Context **configure router** *string* **bgp group** *string* **graceful-restart long-lived family** *keyword*
Description Locally-imposed LLGR stale time
Range 0 to 16777216
Default 16777216
Introduced 16.0.R1

forwarding-bits-set *keyword*

Context	**configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description	BGP LLGR forwarding bit behavior for F bit in AFI or SAFI
Default	none
Options	none, all, non-fwd
Introduced	16.0.R1

helper-override-restart-time *number*

Context	**configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description	Locally-imposed restart time for all AFI/SAFI included in the peer's GR capability
Range	0 to 4095
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description	Locally-imposed LLGR stale time
Range	0 to 16777215
Introduced	16.0.R1

without-no-export *boolean*

Context	**configure router** *string* **bgp group** *string* **graceful-restart long-lived**
Description	Allow LLGR stale routes to be advertised to any peer that did not signal the LLGR capability
Default	false
Introduced	16.0.R1

restart-time *number*

Context	**configure router** *string* **bgp group** *string* **graceful-restart**
Description	BGP graceful restart time
Range	0 to 4095
Default	300
Introduced	16.0.R1

stale-routes-time *number*

Context **configure router** *string* **bgp group** *string* **graceful-restart**
Description Maximum time that stale routes maintain after graceful restart is initiated
Range 1 to 3600
Default 360
Introduced 16.0.R1

hold-time

Context **configure router** *string* **bgp group** *string*
Description Enter the hold-time context
Introduced 16.0.R1

minimum-hold-time *number*

Context **configure router** *string* **bgp group** *string* **hold-time**
Description Minimum hold time that is strictly enforced
Range 0 | 3 to 65536
Default 0
Introduced 16.0.R1

seconds *number*

Context **configure router** *string* **bgp group** *string* **hold-time**
Description BGP hold time
Range 0 | 3 to 65535
Introduced 16.0.R1

import

Context **configure router** *string* **bgp group** *string*
Description Enter the import context
Introduced 16.0.R1

policy *string*

Context	**configure router** *string* **bgp group** *string* **import**
Description	Import policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

initial-send-delay-zero *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Bypass minimum route advertisement interval and send BGP updates as soon as session comes up
Introduced	16.0.R1

keepalive *number*

Context	**configure router** *string* **bgp group** *string*
Description	Time after which the keepalive message is sent
Range	0 to 21845
Introduced	16.0.R1

label-preference *number*

Context	**configure router** *string* **bgp group** *string*
Description	Route preference for routes learned from labeled unicast peers
Range	1 to 255
Introduced	16.0.R1

link-bandwidth

Context	**configure router** *string* **bgp group** *string*
Description	Enter the link-bandwidth context
Introduced	16.0.R3

accept-from-ebgp

Context **configure router** *string* **bgp group** *string* **link-bandwidth**

Description Enter the accept-from-ebgp context

Introduced 16.0.R4

ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

label-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv6 routes

Default false

Introduced 16.0.R4

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support VPN IPv4 address family

Default false

Introduced 16.0.R4

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes

Default false

Introduced 16.0.R4

add-to-received-ebgp

Context **configure router** *string* **bgp group** *string* **link-bandwidth**

Description Enter the add-to-received-ebgp context

Introduced 16.0.R3

ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R3

ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R3

label-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth add-to-received-ebgp**
Description	Support Link Bandwidth EC to labeled unicast IPv4 routes
Default	false
Introduced	16.0.R3

label-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth add-to-received-ebgp**
Description	Support Link Bandwidth EC to labeled unicast IPv6 routes
Default	false
Introduced	16.0.R3

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth add-to-received-ebgp**
Description	Support VPN IPv4 address family
Default	false
Introduced	16.0.R3

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth add-to-received-ebgp**
Description	Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes
Default	false
Introduced	16.0.R3

aggregate-used-paths

Context	**configure router** *string* **bgp group** *string* **link-bandwidth**
Description	Enter the aggregate-used-paths context
Introduced	16.0.R4

ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth aggregate-used-paths**
Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes
Default false
Introduced 16.0.R4

ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth aggregate-used-paths**
Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes
Default false
Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth aggregate-used-paths**
Description Support Link Bandwidth EC to labeled unicast IPv4 routes
Default false
Introduced 16.0.R4

label-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth aggregate-used-paths**
Description Support Link Bandwidth EC to labeled unicast IPv6 routes
Default false
Introduced 16.0.R4

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **link-bandwidth aggregate-used-paths**
Description Support VPN IPv4 address family
Default false
Introduced 16.0.R4

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth aggregate-used-paths**
Description	Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes
Default	false
Introduced	16.0.R4

send-to-ebgp

Context	**configure router** *string* **bgp group** *string* **link-bandwidth**
Description	Enter the send-to-ebgp context
Introduced	16.0.R4

ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description	Support Link Bandwidth EC to unlabeled unicast IPv4 routes
Default	false
Introduced	16.0.R4

ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description	Support Link Bandwidth EC to unlabeled unicast IPv6 routes
Default	false
Introduced	16.0.R4

label-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description	Support Link Bandwidth EC to labeled unicast IPv4 routes
Default	false
Introduced	16.0.R4

label-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description	Support Link Bandwidth EC to labeled unicast IPv6 routes
Default	false
Introduced	16.0.R4

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description	Support VPN IPv4 address family
Default	false
Introduced	16.0.R4

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description	Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes
Default	false
Introduced	16.0.R4

local-address (*union* | *string*)

Context	**configure router** *string* **bgp group** *string*
Description	Local IP address used by group when communicating with BGP peers
Introduced	16.0.R1

local-as

Context	**configure router** *string* **bgp group** *string*
Description	Enter the local-as context
Introduced	16.0.R1

as-number *number*

Context **configure router** *string* **bgp group** *string* **local-as**
Description BGP AS number
Range 1 to 4294967295
Introduced 16.0.R1

prepend-global-as *boolean*

Context **configure router** *string* **bgp group** *string* **local-as**
Description Prepend global AS number when advertising routes to EBGP peer
Default true
Introduced 16.0.R1

private *boolean*

Context **configure router** *string* **bgp group** *string* **local-as**
Description Hide local AS number in paths learned from peering
Default false
Introduced 16.0.R1

local-preference *number*

Context **configure router** *string* **bgp group** *string*
Description Default value for local preference attribute if not specified in incoming routes
Range 0 to 4294967295
Introduced 16.0.R1

loop-detect *keyword*

Context **configure router** *string* **bgp group** *string*
Description Loop detection strategy in AS path
Options drop-peer, ignore-loop, off, discard-route
Introduced 16.0.R1

med-out (*number* | *keyword*)

Context **configure router** *string* **bgp group** *string*
Description Multi-Exit Discriminator (MED) identifier
Options igp-cost
Introduced 16.0.R1

min-route-advertisement *number*

Context **configure router** *string* **bgp group** *string*
Description Minimum interval between successive updates of prefix toward peer
Range 1 to 255
Introduced 16.0.R1

monitor

Context **configure router** *string* **bgp group** *string*
Description Enter the monitor context
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **bgp group** *string* **monitor**
Description Administrative state of BMP monitoring
Default disable
Options enable, disable
Introduced 16.0.R1

all-stations *boolean*

Context **configure router** *string* **bgp group** *string* **monitor**
Description Use all BMP monitoring stations
Default false
Introduced 16.0.R1

route-monitoring

Context	**configure router** *string* **bgp group** *string* **monitor**
Description	Enter the route-monitoring context
Introduced	16.0.R1

post-policy *boolean*

Context	**configure router** *string* **bgp group** *string* **monitor route-monitoring**
Description	Send post-policy monitoring messages
Default	false
Introduced	16.0.R1

pre-policy *boolean*

Context	**configure router** *string* **bgp group** *string* **monitor route-monitoring**
Description	Send pre-policy route monitoring messages
Default	false
Introduced	16.0.R1

station [station-name] *string*

Context	**configure router** *string* **bgp group** *string* **monitor**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[station-name] *string*

Context	**configure router** *string* **bgp group** *string* **monitor station** *string*
Description	BMP monitoring station
Reference	configure **bmp station** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

multihop *number*

Context	**configure router** *string* **bgp group** *string*
Description	TTL value in the IP header of packets sent to a peer
Range	1 to 255
Introduced	16.0.R1

next-hop-self *boolean*

Context	**configure router** *string* **bgp group** *string*
Description	Advertise routes to peer using next hop path attribute set to itself
Default	false
Introduced	16.0.R1

next-hop-unchanged

Context	**configure router** *string* **bgp group** *string*
Description	Enter the next-hop-unchanged context
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp group** *string* **next-hop-unchanged**
Description	Send labeled IPv4 routes to peers with unchanged BGP next-hops
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context	**configure router** *string* **bgp group** *string* **next-hop-unchanged**
Description	Send labeled IPv6 routes to peers with unchanged BGP next-hops
Default	false
Introduced	16.0.R1

origin-validation

Context **configure router** *string* **bgp group** *string*

Description Enter the origin-validation context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **origin-validation**

Description Support unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **origin-validation**

Description Support unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp group** *string* **origin-validation**

Description Support labeled unicast IPv4 routes

Default false

Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp group** *string* **origin-validation**

Description Support labeled unicast IPv6 routes

Default false

Introduced 16.0.R1

outbound-route-filtering

Context	**configure router** *string* **bgp group** *string*
Description	Enter the outbound-route-filtering context
Introduced	16.0.R1

extended-community

Context	**configure router** *string* **bgp group** *string* **outbound-route-filtering**
Description	Enter the extended-community context
Introduced	16.0.R1

accept-orf *boolean*

Context	**configure router** *string* **bgp group** *string* **outbound-route-filtering extended-community**
Description	Negotiate BGP ORF receive capabilities with peer
Introduced	16.0.R1

send-orf

Context	**configure router** *string* **bgp group** *string* **outbound-route-filtering extended-community**
Description	Enter the send-orf context
Introduced	16.0.R1

route-target [community-name] *string*

Context	**configure router** *string* **bgp group** *string* **outbound-route-filtering extended-community send-orf**
Description	Enter the route-target context
Introduced	16.0.R1

[community-name] *string*

Context	**configure router** *string* **bgp group** *string* **outbound-route-filtering extended-community send-orf route-target** *string*
Description	Extended community name that is accepted by route reflector server, or advertised by router
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

passive *boolean*

Context **configure router** *string* **bgp group** *string*
Description Enable passive mode for BGP group
Default false
Introduced 16.0.R1

path-mtu-discovery *boolean*

Context **configure router** *string* **bgp group** *string*
Description Allow path MTU discovery for associated TCP connections
Introduced 16.0.R1

peer-as *number*

Context **configure router** *string* **bgp group** *string*
Description AS number for all remote peers in group
Range 1 to 4294967295
Introduced 16.0.R1

peer-ip-tracking *boolean*

Context **configure router** *string* **bgp group** *string*
Description Allow BGP peer tracking
Introduced 16.0.R1

preference *number*

Context **configure router** *string* **bgp group** *string*
Description Route preference for routes learned from all peers
Range 1 to 255
Introduced 16.0.R1

prefix-limit [family] *keyword*

Context **configure router** *string* **bgp group** *string*
Description Enter the prefix-limit context
Introduced 16.0.R1

[family] *keyword*

Context	**configure router** *string* **bgp group** *string* **prefix-limit** *keyword*
Description	Address family to which the limit applies
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4
Introduced	16.0.R1
Notes	This element is part of a list key

idle-timeout *number*

Context	**configure router** *string* **bgp group** *string* **prefix-limit** *keyword*
Description	Time that BGP peering remains idle before reconnecting to peers
Range	1 to 1024
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **bgp group** *string* **prefix-limit** *keyword*
Description	Send warning message if specified threshold or limit is reached, without disabling BGP peer session
Default	false
Introduced	16.0.R1

maximum *number*

Context	**configure router** *string* **bgp group** *string* **prefix-limit** *keyword*
Description	Specifies the maximum number of routes that can be learned from this peer.
Range	1 to 4294967295
Introduced	16.0.R3
Notes	This element is mandatory

post-import *boolean*

Context	**configure router** *string* **bgp group** *string* **prefix-limit** *keyword*
Description	Apply prefix limit only to number of routes accepted by import policies
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure router** *string* **bgp group** *string* **prefix-limit** *keyword*
Description	Threshold value that triggers a warning message
Range	1 to 100
Default	90
Introduced	16.0.R1

remove-private

Context	**configure router** *string* **bgp group** *string*
Description	Enter the remove-private context
Introduced	16.0.R1

limited *boolean*

Context	**configure router** *string* **bgp group** *string* **remove-private**
Description	Remove private AS numbers up to first public ASN encountered
Default	false
Introduced	16.0.R1

skip-peer-as *boolean*

Context	**configure router** *string* **bgp group** *string* **remove-private**
Description	Keep a private ASN in the AS path if that ASN is the same as the BGP peer ASN
Default	false
Introduced	16.0.R1

send-communities

Context	**configure router** *string* **bgp group** *string*
Description	Enter the send-communities context
Introduced	16.0.R1

extended *boolean*

Context **configure router** *string* **bgp group** *string* **send-communities**

Description Enables the sending of community attribute to the peer for external communities.

Introduced 16.0.R1

large *boolean*

Context **configure router** *string* **bgp group** *string* **send-communities**

Description Enables the sending of community attribute to the peer for large communities.

Introduced 16.0.R1

standard *boolean*

Context **configure router** *string* **bgp group** *string* **send-communities**

Description Enables the sending of community attribute to the peer for non-external communities.

Introduced 16.0.R1

split-horizon *boolean*

Context **configure router** *string* **bgp group** *string*

Description Prevent routes from being reflected back to peer that sends best route

Introduced 16.0.R1

static-group *boolean*

Context **configure router** *string* **bgp group** *string*

Description Use group for static peers

Default true

Introduced 16.0.R1

third-party-nexthop *boolean*

Context **configure router** *string* **bgp group** *string*

Description Send third party next hop to EBGP peers in same subnet as source peer

Introduced 16.0.R1

ttl-security *number*

Context **configure router** *string* **bgp group** *string*

Description Minimum TTL value for incoming BGP packet

Range 1 to 255

Introduced 16.0.R1

type *keyword*

Context **configure router** *string* **bgp group** *string*

Description BGP peer type

Default no-type

Options no-type, internal, external

Introduced 16.0.R1

vpn-apply-export *boolean*

Context **configure router** *string* **bgp group** *string*

Description Apply base instance BGP export route policies to BGP VPN routes

Introduced 16.0.R1

vpn-apply-import *boolean*

Context **configure router** *string* **bgp group** *string*

Description Apply base instance BGP import route policies to BGP VPN routes

Introduced 16.0.R1

hold-time

Context **configure router** *string* **bgp**

Description Enter the hold-time context

Introduced 16.0.R1

minimum-hold-time *number*

Context	**configure router** *string* **bgp hold-time**
Description	Minimum hold time that is strictly enforced
Range	0 | 3 to 65535
Default	0
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **bgp hold-time**
Description	BGP hold time
Range	0 | 3 to 65535
Default	90
Introduced	16.0.R1

ibgp-multipath *boolean*

Context	**configure router** *string* **bgp**
Description	Add IBGP routes with multiple next hops to route table
Default	false
Introduced	16.0.R1

import

Context	**configure router** *string* **bgp**
Description	Enter the import context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp import**
Description	Import policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

initial-send-delay-zero *boolean*

Context	**configure router** *string* **bgp**
Description	Bypass minimum route advertisement interval and send BGP updates as soon as session comes up
Default	false
Introduced	16.0.R1

inter-as-vpn *boolean*

Context	**configure router** *string* **bgp**
Description	Configure BGP to enable sending VPN routes across AS boundaries
Default	false
Introduced	16.0.R1

keepalive *number*

Context	**configure router** *string* **bgp**
Description	Time after which the keepalive message is sent
Range	0 to 21845
Default	30
Introduced	16.0.R1

label-preference *number*

Context	**configure router** *string* **bgp**
Description	Route preference for routes learned from labeled unicast peers
Range	1 to 255
Default	170
Introduced	16.0.R1

link-state-route-export *boolean*

Context	**configure router** *string* **bgp**
Description	Specifies whether to export the TED database into BGP.
Default	false
Introduced	16.0.R1

link-state-route-import *boolean*

Context	**configure router** *string* **bgp**
Description	Specifies whether to receive TED NLRI updates. It is applicable to only Virtual Service Router (VSR) running within a Network Service Provider (NSP).
Default	false
Introduced	16.0.R1

local-as

Context	**configure router** *string* **bgp**
Description	Enter the local-as context
Introduced	16.0.R1

as-number *number*

Context	**configure router** *string* **bgp local-as**
Description	BGP AS number
Range	1 to 4294967295
Introduced	16.0.R1

prepend-global-as *boolean*

Context	**configure router** *string* **bgp local-as**
Description	Prepend global AS number when advertising routes to EBGP peer
Default	true
Introduced	16.0.R1

private *boolean*

Context	**configure router** *string* **bgp local-as**
Description	Hide local AS number in paths learned from peering
Default	false
Introduced	16.0.R1

local-preference *number*

Context **configure router** *string* **bgp**

Description Default value for local preference attribute if not specified in incoming routes

Default 100

Introduced 16.0.R1

loop-detect *keyword*

Context **configure router** *string* **bgp**

Description Loop detection strategy in AS path

Default ignore-loop

Options drop-peer, ignore-loop, off, discard-route

Introduced 16.0.R1

med-out (*number* | *keyword*)

Context **configure router** *string* **bgp**

Description Multi-Exit Discriminator (MED) identifier

Options igp-cost

Introduced 16.0.R1

min-route-advertisement *number*

Context **configure router** *string* **bgp**

Description Minimum interval between successive updates of prefix toward peer

Range 1 to 255

Default 30

Introduced 16.0.R1

monitor

Context **configure router** *string* **bgp**

Description Enter the monitor context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **bgp monitor**
Description	Administrative state of BMP monitoring
Default	disable
Options	enable, disable
Introduced	16.0.R1

all-stations *boolean*

Context	**configure router** *string* **bgp monitor**
Description	Use all BMP monitoring stations
Default	false
Introduced	16.0.R1

route-monitoring

Context	**configure router** *string* **bgp monitor**
Description	Enter the route-monitoring context
Introduced	16.0.R1

post-policy *boolean*

Context	**configure router** *string* **bgp monitor route-monitoring**
Description	Send post-policy monitoring messages
Default	false
Introduced	16.0.R1

pre-policy *boolean*

Context	**configure router** *string* **bgp monitor route-monitoring**
Description	Send pre-policy route monitoring messages
Default	false
Introduced	16.0.R1

station [station-name] *string*

Context	**configure router** *string* **bgp monitor**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[station-name] *string*

Context	**configure router** *string* **bgp monitor station** *string*
Description	BMP monitoring station
Reference	configure **bmp station** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

mp-bgp-keep *boolean*

Context	**configure router** *string* **bgp**
Description	Keep information for all Multiprotocol BGP routes on BGP router instance
Default	false
Introduced	16.0.R1

multihop *number*

Context	**configure router** *string* **bgp**
Description	TTL value entered in IP header of packets sent to peer
Range	1 to 255
Introduced	16.0.R1

multipath

Context	**configure router** *string* **bgp**
Description	Enter the multipath context
Introduced	16.0.R1

ebgp *number*

Context **configure router** *string* **bgp multipath**

Description Maximum multipaths per prefix or NLRI when best path is an EBGP learned route

Range 1 to 64

Introduced 16.0.R1

ibgp *number*

Context **configure router** *string* **bgp multipath**

Description Maximum multipaths per prefix or NLRI when best path is an IBGP learned route

Range 1 to 64

Introduced 16.0.R1

max-paths *number*

Context **configure router** *string* **bgp multipath**

Description Maximum multipaths per prefix or NLRI if EBGP or IBGP maximum paths do not apply

Range 1 to 64

Default 1

Introduced 16.0.R1

restrict *keyword*

Context **configure router** *string* **bgp multipath**

Description Multipath restrictions

Default same-as-path-length

Options same-as-path-length, same-neighbor-as, exact-as-path

Introduced 16.0.R1

mvpn-vrf-import-subtype-new *boolean*

Context **configure router** *string* **bgp**

Description Encode the new IANA value of 0x010b in advertised routes

Default false

Introduced 16.0.R1

neighbor [ip-address] (*ipv4-address* | *ipv6-address*)

Context **configure router** *string* **bgp**

Description Enter the neighbor context

Introduced 16.0.R1

[ip-address] (*ipv4-address* | *ipv6-address*)

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description BGP group neighbor

Introduced 16.0.R1

Notes This element is part of a list key

add-paths

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the add-paths context

Introduced 16.0.R1

ipv4

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths ipv4**

Description Negotiate to receive multiple unlabeled unicast routes per IPv4 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths ipv4**

Description Maximum number of paths per unlabeled IPv4 unicast prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

ipv6

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths ipv6**

Description Negotiate to receive multiple unlabeled unicast routes per IPv6 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths ipv6**

Description Maximum number of paths per unlabeled unicast IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

label-ipv4

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the label-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths label-ipv4**

Description Negotiate to receive multiple labeled-unicast routes per IPv4 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths label-ipv4**

Description Maximum number of paths per labeled-unicast IPv4 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

label-ipv6

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the label-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths label-ipv6**

Description Negotiate to receive multiple labeled-unicast routes per IPv6 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths label-ipv6**

Description Maximum number of paths per labeled-unicast IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mcast-vpn-ipv4

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the mcast-vpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mcast-vpn-ipv4**
Description	Negotiate to receive multiple multicast routes per IPv4 VPN prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mcast-vpn-ipv4**
Description	Maximum number of paths per multicast VPN IPv4 prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

mcast-vpn-ipv6

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**
Description	Enter the mcast-vpn-ipv6 context
Introduced	16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mcast-vpn-ipv6**
Description	Negotiate to receive multiple multicast routes per IPv6 VPN prefix
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mcast-vpn-ipv6**
Description	Maximum number of paths per multicast IPv6 VPN prefix that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

mvpn-ipv4

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the mvpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mvpn-ipv4**

Description Negotiate to receive multiple multicast VPN routes per IPv4 prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mvpn-ipv4**

Description Maximum number of paths per multicast VPN IPv4 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

mvpn-ipv6

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the mvpn-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mvpn-ipv6**

Description Negotiate to receive multiple multicast routes per IPv6 VPN prefix

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths mvpn-ipv6**

Description Maximum number of paths per multicast VPN IPv6 prefix that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

vpn-ipv4

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the vpn-ipv4 context

Introduced 16.0.R1

receive *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths vpn-ipv4**

Description Negotiate to receive VPN-IPv4 routes

Default false

Introduced 16.0.R1

send *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths vpn-ipv4**

Description Maximum number of paths per VPN-IPv4 NLRI that can be advertised to add-path peers

Range 1 to 16

Introduced 16.0.R1

vpn-ipv6

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths**

Description Enter the vpn-ipv6 context

Introduced 16.0.R1

receive *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths vpn-ipv6**
Description	Negotiate to receive multiple VPN-IPv6 routes
Default	false
Introduced	16.0.R1

send *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **add-paths vpn-ipv6**
Description	Maximum number of paths per VPN-IPv6 NLRI that can be advertised to add-path peers
Range	1 to 16
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Administrative state of BGP peer
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-inactive *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Advertise inactive BGP routes to other BGP peers
Introduced	16.0.R1

advertise-ipv6-next-hops

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the advertise-ipv6-next-hops context
Introduced	16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **advertise-ipv6-next-hops**

Description Advertise labeled IPv4 routes

Default false

Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **advertise-ipv6-next-hops**

Description Advertise labeled IPv6 routes

Default false

Introduced 16.0.R1

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **advertise-ipv6-next-hops**

Description Advertise VPN IPv4 routes

Default false

Introduced 16.0.R1

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **advertise-ipv6-next-hops**

Description Advertise VPN IPv6 routes

Default false

Introduced 16.0.R1

advertise-ldp-prefix *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Advertise all activated LDP FEC prefixes to BGP peer

Default false

Introduced 16.0.R1

aggregator-id-zero *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Set router ID in aggregator path attribute to zero when BGP aggregates routes

Introduced 16.0.R1

aigp *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Add Accumalated IGP (AIGP) attribute to advertised routes

Introduced 16.0.R1

asn-4-byte *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Allow use of 4-byte ASNs

Introduced 16.0.R1

authentication-key *encrypted-leaf*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Configure the BGP authentication key for all peers.

String Length 1 to 370

Introduced 16.0.R1

authentication-keychain *string*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description The value specifies the keychain which will be used to sign and/or authenticate the BGP protocol stream.

Reference configure **system security keychains keychain** *string*

Introduced 16.0.R3

bfd-liveness *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Use Bidirectional Forwarding Detection

Introduced 16.0.R1

capability-negotiation *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enable capability negotiation

Introduced 16.0.R1

client-reflect *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enable client reflection of routes by the route reflector

Introduced 16.0.R1

cluster

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the cluster context

Introduced 16.0.R1

allow-local-fallback *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **cluster**

Description Allow fallback to RR default location when no BGP routes reachable from ORR location

Default false

Introduced 16.0.R1

cluster-id *ipv4-address*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **cluster**

Description Cluster ID for route reflector server

Introduced 16.0.R1

orr-location *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **cluster**

Description Optimal route reflection location for cluster ID

Range 1 to 16

Introduced 16.0.R1

connect-retry *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description BGP connect retry timer value

Range 1 to 65535

Introduced 16.0.R1

damp-peer-oscillations

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the damp-peer-oscillations context

Introduced 16.0.R1

error-interval *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations**

Description Error free interval after session reset, to return idle-hold-time to initial-wait

Range 0 to 2048

Default 30

Introduced 16.0.R1

idle-hold-time

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations**

Description Enter the idle-hold-time context

Introduced 16.0.R1

initial-wait *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations idle-hold-time**

Description Time a session remains in idle state after session stabilized

Range 0 to 2048

Default 0

Introduced 16.0.R1

max-wait *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations idle-hold-time**

Description Maximum session idle time after repeated instability

Range 1 to 2048

Default 60

Introduced 16.0.R1

second-wait *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations idle-hold-time**

Description Time that doubles after each session failure within relatively short time

Range 1 to 2048

Default 5

Introduced 16.0.R1

damping *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Use BGP route damping for learned routes defined within the route policy

Introduced 16.0.R1

def-recv-evpn-encap *keyword*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Default encapsulation type when EVPN route is received without BGP encapsulation extended community

Options mpls, vxlan

Introduced 16.0.R1

default-route-target *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Send default RTC route to peers in BGP peer group

Introduced 16.0.R1

description *string*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

enforce-first-as *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Compare most recent ASN in AS_PATH attribute of each route to configured peer AS of session for match
Introduced	16.0.R1

error-handling

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the error-handling context
Introduced	16.0.R1

update-fault-tolerance *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **error-handling**
Description	Consider non-critical errors as treat-as-withdraw and do not trigger session reset
Introduced	16.0.R1

export

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the export context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **export**
Description	Export policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

extended-nh-encoding

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the extended-nh-encoding context
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **extended-nh-encoding**
Description	Advertise extended NH encoding capability for labeled IPv4 routes
Default	false
Introduced	16.0.R1

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **extended-nh-encoding**
Description	Advertise extended NH encoding capability for VPN IPv4 routes
Default	false
Introduced	16.0.R1

family

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the family context
Introduced	16.0.R1

bgp-ls *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support BGP-LS address family

Default false

Introduced 16.0.R1

evpn *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support EVPN address family

Default false

Introduced 16.0.R1

flow-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support flowspec IPv4 address family

Default false

Introduced 16.0.R1

flow-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support flowspec IPv6 address family

Default false

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support IPv4 address family

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support IPv6 address family

Default false

Introduced 16.0.R1

l2-vpn *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support L2 VPN address family

Default false

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support labeled IPv4 address family

Default false

Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support labeled IPv6 address family

Default false

Introduced 16.0.R1

mcast-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support multicast IPv4 address family

Default false

Introduced 16.0.R1

mcast-ipv6 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support multicast IPv6 address family
Default	false
Introduced	16.0.R1

mcast-vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support multicast VPN IPv4 address family
Default	false
Introduced	16.0.R1

mcast-vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support multicast VPN IPv6 address family
Default	false
Introduced	16.0.R1

mdt-safi *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support Multicast Distribution Tree (MDT) SAFI address family
Default	false
Introduced	16.0.R1

ms-pw *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support multi-segment pseudowire address family
Default	false
Introduced	16.0.R1

mvpn-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support MVPN IPv4 address family
Default	false
Introduced	16.0.R1

mvpn-ipv6 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support MVPN IPv6 address family
Default	false
Introduced	16.0.R1

route-target *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support address family for RT constrain routes
Default	false
Introduced	16.0.R1

sr-policy-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Advertise capability for AFI1/SAFI73, BGP routes that encode an SR policy to an IPv4 destination
Default	false
Introduced	16.0.R1

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support VPN IPv4 address family
Default	false
Introduced	16.0.R1

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description	Support VPN IPv6 address family
Default	false
Introduced	16.0.R1

fast-external-failover *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Specifies whether the router should drop an external BGP session immediately when the local interface goes down, or whether the BGP session should be kept up until the holdtime expires.
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the graceful-restart context
Introduced	16.0.R1

gr-notification *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**
Description	Enable graceful restart capability indicating support for NOTIFICATION messages
Default	false
Introduced	16.0.R1

long-lived

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**
Description	Enter the long-lived context
Introduced	16.0.R1

advertise-stale-to-all-neighbors *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Advertise BGP routes marked as LLGR stale to BGP peers
Default	false
Introduced	16.0.R1

advertised-stale-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Long-lived stale time that is advertised by router in its LLGR capability
Range	0 to 16777215
Default	86400
Introduced	16.0.R1

family [family-type] *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived family** *keyword*
Description	Address family type for LLGR
Options	ipv4, vpn-ipv4, ipv6, vpn-ipv6, l2-vpn, flow-ipv4, route-target, flow-ipv6, label-ipv4, label-ipv6
Introduced	16.0.R1
Notes	This element is part of a list key

advertised-stale-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived family** *keyword*
Description	Long-lived stale time that is advertised by router in its LLGR capability
Range	0 to 16777215
Default	86400
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived family** *keyword*
Description	Locally-imposed LLGR stale time
Range	0 to 16777216
Default	16777216
Introduced	16.0.R1

forwarding-bits-set *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	BGP LLGR forwarding bit behavior for F bit in AFI or SAFI
Default	none
Options	none, all, non-fwd
Introduced	16.0.R1

helper-override-restart-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Locally-imposed restart time for all AFI/SAFI included in the peer's GR capability
Range	0 to 4095
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Locally-imposed LLGR stale time
Range	0 to 16777215
Introduced	16.0.R1

without-no-export *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Allow LLGR stale routes to be advertised to any peer that did not signal the LLGR capability
Default	false
Introduced	16.0.R1

restart-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**
Description	BGP graceful restart time
Range	0 to 4095
Default	300
Introduced	16.0.R1

stale-routes-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**
Description	Maximum time that stale routes maintain after graceful restart is initiated
Range	1 to 3600
Default	360
Introduced	16.0.R1

group *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	BGP peer group
Reference	configure **router** *string* **bgp group** *string*
Introduced	16.0.R1
Notes	This element is mandatory

hold-time

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the hold-time context
Introduced	16.0.R1

minimum-hold-time *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **hold-time**
Description	Minimum hold time that is strictly enforced
Range	0 | 3 to 65536
Default	0
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **hold-time**
Description	BGP hold time
Range	0 | 3 to 65535
Introduced	16.0.R1

import

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the import context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **import**
Description	Import policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

initial-send-delay-zero *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Bypass minimum route advertisement interval and send BGP updates as soon as session comes up
Introduced	16.0.R1

keepalive *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Time after which the keepalive message is sent
Range	0 to 21845
Introduced	16.0.R1

l2vpn-cisco-interop *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Allow translation between non-compliant NLRI format of Cisco
Default	false
Introduced	16.0.R1

label-preference *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Route preference for routes learned from labeled unicast peers
Range	1 to 255
Introduced	16.0.R1

link-bandwidth

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the link-bandwidth context

Introduced 16.0.R4

accept-from-ebgp

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the accept-from-ebgp context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv6 routes

Default false

Introduced 16.0.R4

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support VPN IPv4 address family

Default false

Introduced 16.0.R4

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes

Default false

Introduced 16.0.R4

add-to-received-ebgp

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the add-to-received-ebgp context

Introduced 16.0.R3

ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R3

ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R3

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R3

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv6 routes

Default false

Introduced 16.0.R3

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support VPN IPv4 address family

Default false

Introduced 16.0.R3

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes

Default false

Introduced 16.0.R3

aggregate-used-paths

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the aggregate-used-paths context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to labeled unicast IPv6 routes

Default false

Introduced 16.0.R4

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support VPN IPv4 address family

Default false

Introduced 16.0.R4

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes

Default false

Introduced 16.0.R4

send-to-ebgp

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the send-to-ebgp context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv6 routes

Default false

Introduced 16.0.R4

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support VPN IPv4 address family

Default false

Introduced 16.0.R4

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to IPv6 VPN (SAFI 128) routes

Default false

Introduced 16.0.R4

local-address (*union* | *string*)

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Local IP address used by neighbor when communicating with BGP peers

Introduced 16.0.R1

local-as

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the local-as context

Introduced 16.0.R1

as-number *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **local-as**

Description BGP AS number

Range 1 to 4294967295

Introduced 16.0.R1

prepend-global-as *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **local-as**

Description Prepend global AS number when advertising routes to EBGP peer

Default true

Introduced 16.0.R1

private *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **local-as**

Description Hide local AS number in paths learned from peering

Default false

Introduced 16.0.R1

local-preference *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Default value for local preference attribute if not specified in incoming routes

Range 0 to 4294967295

Introduced 16.0.R1

loop-detect *keyword*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Loop detection strategy in AS path

Options drop-peer, ignore-loop, off, discard-route

Introduced 16.0.R1

med-out (*number* | *keyword*)

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Multi-Exit Discriminator (MED) identifier

Options igp-cost

Introduced 16.0.R1

min-route-advertisement *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Minimum interval between successive updates of prefix toward peer

Range 1 to 255

Introduced 16.0.R1

monitor

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the monitor context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**

Description Administrative state of BMP monitoring

Default disable

Options enable, disable

Introduced 16.0.R1

all-stations *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**
Description	Use all BMP monitoring stations
Default	false
Introduced	16.0.R1

route-monitoring

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**
Description	Enter the route-monitoring context
Introduced	16.0.R1

post-policy *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor route-monitoring**
Description	Send post-policy monitoring messages
Default	false
Introduced	16.0.R1

pre-policy *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor route-monitoring**
Description	Send pre-policy route monitoring messages
Default	false
Introduced	16.0.R1

station [station-name] *string*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[station-name] *string*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor station** *string*
Description	BMP monitoring station
Reference	configure **bmp station** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

multihop *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	TTL value in the P header of packets sent to a peer
Range	1 to 255
Introduced	16.0.R1

next-hop-self *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Advertise routes to peer using next hop path attribute set to itself
Introduced	16.0.R1

next-hop-unchanged

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the next-hop-unchanged context
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **next-hop-unchanged**
Description	Send labeled IPv4 routes to peers with unchanged BGP next-hops
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **next-hop-unchanged**
Description Send labeled IPv6 routes to peers with unchanged BGP next-hops
Default false
Introduced 16.0.R1

origin-validation

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Enter the origin-validation context
Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **origin-validation**
Description Support unlabeled unicast IPv4 routes
Default false
Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **origin-validation**
Description Support unlabeled unicast IPv6 routes
Default false
Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **origin-validation**
Description Support labeled unicast IPv4 routes
Default false
Introduced 16.0.R1

label-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **origin-validation**

Description Support labeled unicast IPv6 routes

Default false

Introduced 16.0.R1

outbound-route-filtering

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the outbound-route-filtering context

Introduced 16.0.R1

extended-community

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **outbound-route-filtering**

Description Enter the extended-community context

Introduced 16.0.R1

accept-orf *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **outbound-route-filtering extended-community**

Description Negotiate BGP ORF receive capabilities with peer

Introduced 16.0.R1

send-orf

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **outbound-route-filtering extended-community**

Description Enter the send-orf context

Introduced 16.0.R1

route-target [community-name] *string*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **outbound-route-filtering extended-community send-orf**

Description Enter the route-target context

Introduced 16.0.R1

[community-name] *string*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **outbound-route-filtering extended-community send-orf route-target** *string*
Description	Extended community name that is accepted by route reflector server, or advertised by router
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

passive *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enable passive mode for BGP group
Introduced	16.0.R1

path-mtu-discovery *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Allow path MTU discovery for associated TCP connections
Introduced	16.0.R1

peer-as *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	AS number for the remote peer
Range	1 to 4294967295
Introduced	16.0.R1

peer-creation-type *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Peer creation type
Default	static
Options	static, dynamic
Introduced	16.0.R1

peer-ip-tracking *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Allow BGP peer tracking
Introduced	16.0.R1

preference *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Route preference for routes learned from all peers
Range	1 to 255
Introduced	16.0.R1

prefix-limit [family] *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the prefix-limit context
Introduced	16.0.R1

[family] *keyword*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Address family to which the limit applies
Options	ipv4, vpn-ipv4, ipv6, mcast-ipv4, vpn-ipv6, l2-vpn, mvpn-ipv4, mdt-safi, ms-pw, flow-ipv4, route-target, mcast-vpn-ipv4, mvpn-ipv6, flow-ipv6, evpn, mcast-ipv6, label-ipv4, label-ipv6, bgp-ls, mcast-vpn-ipv6, sr-policy-ipv4
Introduced	16.0.R1
Notes	This element is part of a list key

idle-timeout *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Time that BGP peering remains idle before reconnecting to peers
Range	1 to 1024
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Send warning message if specified threshold or limit is reached, without disabling BGP peer session
Default	false
Introduced	16.0.R1

maximum *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Specifies the maximum number of routes that can be learned from this peer.
Range	1 to 4294967295
Introduced	16.0.R3

post-import *boolean*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Apply prefix limit only to number of routes accepted by import policies
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Threshold value that triggers a warning message
Range	1 to 100
Default	90
Introduced	16.0.R1

remove-private

Context	**configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the remove-private context
Introduced	16.0.R1

limited *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **remove-private**
Description Remove private AS numbers up to first public ASN encountered
Default false
Introduced 16.0.R1

skip-peer-as *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **remove-private**
Description Keep a private ASN in the AS path if that ASN is the same as the BGP peer ASN
Default false
Introduced 16.0.R1

send-communities

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Enter the send-communities context
Introduced 16.0.R1

extended *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **send-communities**
Description Enables the sending of community attribute to the peer for external communities.
Introduced 16.0.R1

large *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **send-communities**
Description Enables the sending of community attribute to the peer for large communities.
Introduced 16.0.R1

standard *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **send-communities**
Description Enables the sending of community attribute to the peer for non-external communities.
Introduced 16.0.R1

split-horizon *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Prevent routes from being reflected back to peer that sends best route (true)
Introduced 16.0.R1

third-party-nexthop *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Send third party next hop to EBGP peers in same subnet as source peer
Introduced 16.0.R1

ttl-security *number*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Minimum TTL value for incoming BGP packet
Range 1 to 255
Introduced 16.0.R1

type *keyword*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Peer as internal (IBGP) or external (EBGP)
Options no-type, internal, external
Introduced 16.0.R1

vpn-apply-export *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Apply base instance BGP export route polices to BGP VPN routes
Introduced 16.0.R1

vpn-apply-import *boolean*

Context **configure router** *string* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Apply base instance BGP import route polices to BGP VPN routes
Introduced 16.0.R1

neighbor-trust

Context **configure router** *string* **bgp**

Description Enter the neighbor-trust context

Introduced 16.0.R4

vpn-ipv4 *boolean*

Context **configure router** *string* **bgp neighbor-trust**

Description Enable/disable family type vpn-ipv4.

Default false

Introduced 16.0.R4

vpn-ipv6 *boolean*

Context **configure router** *string* **bgp neighbor-trust**

Description Enable/disable family type vpn-ipv6.

Default false

Introduced 16.0.R4

next-hop-resolution

Context **configure router** *string* **bgp**

Description Enter the next-hop-resolution context

Introduced 16.0.R1

labeled-routes

Context **configure router** *string* **bgp next-hop-resolution**

Description Enter the labeled-routes context

Introduced 16.0.R1

allow-static *boolean*

Context **configure router** *string* **bgp next-hop-resolution labeled-routes**

Description Allow static routes to resolve BGP next-hop of label-IPv4/IPv6 and VPN-IPv4/IPv6 routes from peer

Default false

Introduced 16.0.R1

rr-use-route-table *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes**
Description	RTM resolution of BGP next hop for labeled routes if TTM resolution fails
Default	false
Introduced	16.0.R1

transport-tunnel

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes**
Description	Enter the transport-tunnel context
Introduced	16.0.R1

family [family-type] *keyword*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword*
Description	Address family type for configuring next-hop resolution of BGP label routes
Options	vpn, label-ipv4, label-ipv6
Introduced	16.0.R1
Notes	This element is part of a list key

enforce-strict-tunnel-tagging *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword*
Description	Consider only LSPs marked with an admin-tag for next-hop resolution
Default	false
Introduced	16.0.R1

resolution *keyword*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword*
Description	Resolution state of BGP unlabeled routes to tunnels
Default	filter
Options	none, filter, any
Introduced	16.0.R1

resolution-filter

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword*
Description	Enter the resolution-filter context
Introduced	16.0.R1

bgp *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**
Description	Use BGP tunneling for next-hop resolution
Introduced	16.0.R1

ldp *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**
Description	Use LDP tunneling for next-hop resolution
Default	true
Introduced	16.0.R1

mpls-fwd-policy *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**
Description	Use Mpls Forwarding Policy for next hop resolution.
Default	false
Introduced	16.0.R4

rib-api *boolean*

Context **configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**

Description Use rib-api tunnel for next hop resolution.

Default false

Introduced 16.0.R4

rsvp *boolean*

Context **configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**

Description Use RSVP tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-isis *boolean*

Context **configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**

Description Use SR ISIS tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-ospf *boolean*

Context **configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**

Description Use SR OSPF tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-policy *boolean*

Context **configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**

Description Use SR policies for next-hop resolution

Default false

Introduced 16.0.R1

sr-te *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**
Description	Use SR traffic engineering for next-hop resolution
Default	false
Introduced	16.0.R1

udp *boolean*

Context	**configure router** *string* **bgp next-hop-resolution labeled-routes transport-tunnel family** *keyword* **resolution-filter**
Description	Use UDP for next-hop resolution
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp next-hop-resolution**
Description	Policy that controls which IP routes are eligible to resolve BGP next hop addresses
String Length	1 to 64
Introduced	16.0.R1

shortcut-tunnel

Context	**configure router** *string* **bgp next-hop-resolution**
Description	Enter the shortcut-tunnel context
Introduced	16.0.R1

family [family-type] *keyword*

Context	**configure router** *string* **bgp next-hop-resolution shortcut-tunnel**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword*
Description	Address family type for shortcut tunnel selection
Options	ipv4, ipv6
Introduced	16.0.R1
Notes	This element is part of a list key

disallow-igp *boolean*

Context	**configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword*
Description	Do not resolve BGP routes using IGP next-hops in RTM if no tunnel next-hops found in TTM
Default	false
Introduced	16.0.R1

enforce-strict-tunnel-tagging *boolean*

Context	**configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword*
Description	Consider only LSPs marked with an admin-tag for next-hop resolution
Default	false
Introduced	16.0.R1

resolution *keyword*

Context	**configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword*
Description	Resolution state of BGP unlabeled routes to tunnels
Default	none
Options	none, filter, any
Introduced	16.0.R1

resolution-filter

Context	**configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword*
Description	Enter the resolution-filter context
Introduced	16.0.R1

bgp *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use BGP tunneling for next-hop resolution

Default false

Introduced 16.0.R1

ldp *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use LDP tunneling for next-hop resolution

Default false

Introduced 16.0.R1

mpls-fwd-policy *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use Mpls Forwarding Policy for next hop resolution.

Default false

Introduced 16.0.R4

rib-api *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use rib-api tunnel for next hop resolution.

Default false

Introduced 16.0.R4

rsvp *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use RSVP tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-isis *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use SR ISIS tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-ospf *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use SR OSPF tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-policy *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use SR policies for next-hop resolution

Default false

Introduced 16.0.R1

sr-te *boolean*

Context **configure router** *string* **bgp next-hop-resolution shortcut-tunnel family** *keyword* **resolution-filter**

Description Use SR traffic engineering for next-hop resolution

Default false

Introduced 16.0.R1

use-bgp-routes *boolean*

Context **configure router** *string* **bgp next-hop-resolution**

Description Use BGP routes to recursively resolve BGP next-hop of unlabeled IPv4 and unlabeled IPv6 routes

Default false

Introduced 16.0.R1

weighted-ecmp *boolean*

Context	**configure router** *string* **bgp next-hop-resolution**
Description	Allow weighted ECMP for next-hop tunnel selection for 6PE
Default	false
Introduced	16.0.R1

optimal-route-reflection

Context	**configure router** *string* **bgp**
Description	Enter the optimal-route-reflection context
Introduced	16.0.R1

location [location-id] *number*

Context	**configure router** *string* **bgp optimal-route-reflection**
Description	Enter the location context
Introduced	16.0.R1

[location-id] *number*

Context	**configure router** *string* **bgp optimal-route-reflection location** *number*
Description	Optimal route reflection location
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

primary-ip-address *ipv4-unicast-address*

Context	**configure router** *string* **bgp optimal-route-reflection location** *number*
Description	Preferred IPv4 address to calculate ORR cost from location associated to BGP next hop
Introduced	16.0.R1

primary-ipv6-address *ipv6-unicast-address*

Context	**configure router** *string* **bgp optimal-route-reflection location** *number*
Description	Specifies the preferred IPv6 address to calculate the optimal-route-reflection cost from the associated location to a bgp next-hop.
Introduced	16.0.R4

secondary-ip-address *ipv4-unicast-address*

Context **configure router** *string* **bgp optimal-route-reflection location** *number*

Description Second preferred IP address to calculate ORR cost from location associated to BGP next hop

Introduced 16.0.R1

secondary-ipv6-address *ipv6-unicast-address*

Context **configure router** *string* **bgp optimal-route-reflection location** *number*

Description Specifies the second preferred IPv6 address to calculate the optimal-route-reflection cost from the associated location to a bgp next-hop.

Introduced 16.0.R4

tertiary-ip-address *ipv4-unicast-address*

Context **configure router** *string* **bgp optimal-route-reflection location** *number*

Description Third preferred IP address to calculate ORR cost from location associated to BGP next hop

Introduced 16.0.R1

tertiary-ipv6-address *ipv6-unicast-address*

Context **configure router** *string* **bgp optimal-route-reflection location** *number*

Description Specifies the third preferred IPv6 address to calculate the optimal-route-reflection cost from the associated location to a bgp next-hop.

Introduced 16.0.R4

spf-wait

Context **configure router** *string* **bgp optimal-route-reflection**

Description Enter the spf-wait context

Introduced 16.0.R1

initial-wait *number*

Context	**configure router** *string* **bgp optimal-route-reflection spf-wait**
Description	Initial hold off time before initiating an SPF to calculate cost from optimal route reflection location
Range	1 to 300
Default	5
Introduced	16.0.R1

max-wait *number*

Context	**configure router** *string* **bgp optimal-route-reflection spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	1 to 600
Default	60
Introduced	16.0.R1

second-wait *number*

Context	**configure router** *string* **bgp optimal-route-reflection spf-wait**
Description	Additional hold off time between first and second SPF calculations
Range	1 to 300
Default	15
Introduced	16.0.R1

outbound-route-filtering

Context	**configure router** *string* **bgp**
Description	Enter the outbound-route-filtering context
Introduced	16.0.R1

extended-community

Context	**configure router** *string* **bgp outbound-route-filtering**
Description	Enter the extended-community context
Introduced	16.0.R1

accept-orf *boolean*

Context	**configure router** *string* **bgp outbound-route-filtering extended-community**
Description	Negotiate BGP ORF receive capabilities with peer
Default	false
Introduced	16.0.R1

send-orf

Context	**configure router** *string* **bgp outbound-route-filtering extended-community**
Description	Enter the send-orf context
Introduced	16.0.R1

route-target [community-name] *string*

Context	**configure router** *string* **bgp outbound-route-filtering extended-community send-orf**
Description	Enter the route-target context
Introduced	16.0.R1

[community-name] *string*

Context	**configure router** *string* **bgp outbound-route-filtering extended-community send-orf route-target** *string*
Description	Extended community name that is accepted by route reflector server, or advertised by router
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

override-tunnel-elc *boolean*

Context	**configure router** *string* **bgp**
Description	Render all far ends for BGP tunnels as entropy-label-capable, despite received capability signaling
Default	false
Introduced	16.0.R1

path-mtu-discovery *boolean*

Context	**configure router** *string* **bgp**
Description	Allow path MTU discovery for associated TCP connections
Default	false
Introduced	16.0.R1

peer-ip-tracking *boolean*

Context	**configure router** *string* **bgp**
Description	Allow BGP peer tracking
Default	false
Introduced	16.0.R1

peer-tracking-policy *string*

Context	**configure router** *string* **bgp**
Description	Policy for BGP peer tracking on router instance
String Length	1 to 64
Introduced	16.0.R1

preference *number*

Context	**configure router** *string* **bgp**
Description	Route preference for routes learned from all peers
Range	1 to 255
Default	170
Introduced	16.0.R1

purge-timer *number*

Context	**configure router** *string* **bgp**
Description	Maximum time before stale routes are purged
Range	1 to 60
Default	10
Introduced	16.0.R1

rapid-update

Context	**configure router** *string* **bgp**
Description	Enter the rapid-update context
Introduced	16.0.R1

evpn *boolean*

Context	**configure router** *string* **bgp rapid-update**
Description	Include EVPN address family
Default	false
Introduced	16.0.R1

l2-vpn *boolean*

Context	**configure router** *string* **bgp rapid-update**
Description	Include L2 VPN address family
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure router** *string* **bgp rapid-update**
Description	Include labeled IPv4 address family
Default	false
Introduced	16.0.R1

label-ipv6 *boolean*

Context	**configure router** *string* **bgp rapid-update**
Description	Include labeled IPv6 address family
Default	false
Introduced	16.0.R1

mcast-vpn-ipv4 *boolean*

Context **configure router** *string* **bgp rapid-update**
Description Include multicast VPN IPv4 address family
Default false
Introduced 16.0.R1

mcast-vpn-ipv6 *boolean*

Context **configure router** *string* **bgp rapid-update**
Description Include multicast VPN IPv6 address family
Default false
Introduced 16.0.R1

mdt-safi *boolean*

Context **configure router** *string* **bgp rapid-update**
Description Include Multicast Distribution Tree (MDT) SAFI address family
Default false
Introduced 16.0.R1

mvpn-ipv4 *boolean*

Context **configure router** *string* **bgp rapid-update**
Description Include MVPN IPv4 address family
Default false
Introduced 16.0.R1

mvpn-ipv6 *boolean*

Context **configure router** *string* **bgp rapid-update**
Description Include MVPN IPv6 address family
Default false
Introduced 16.0.R1

vpn-ipv4 *boolean*

Context	**configure router** *string* **bgp rapid-update**
Description	Include VPN IPv4 address family
Default	false
Introduced	16.0.R1

vpn-ipv6 *boolean*

Context	**configure router** *string* **bgp rapid-update**
Description	Include VPN IPv6 address family
Default	false
Introduced	16.0.R1

rapid-withdrawal *boolean*

Context	**configure router** *string* **bgp**
Description	Send BGP withdrawals immediately without MRAI timer expiring
Default	false
Introduced	16.0.R1

remove-private

Context	**configure router** *string* **bgp**
Description	Enter the remove-private context
Introduced	16.0.R1

limited *boolean*

Context	**configure router** *string* **bgp remove-private**
Description	Remove private ASNs up to the first public ASN encountered
Default	false
Introduced	16.0.R1

skip-peer-as *boolean*

Context	**configure router** *string* **bgp remove-private**
Description	Keep a private ASN in the AS path if that ASN is the same as the BGP peer ASN
Default	false
Introduced	16.0.R1

rib-management

Context	**configure router** *string* **bgp**
Description	Enter the rib-management context
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **bgp rib-management**
Description	Enter the ipv4 context
Introduced	16.0.R1

leak-import

Context	**configure router** *string* **bgp rib-management ipv4**
Description	Enter the leak-import context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp rib-management ipv4 leak-import**
Description	Leak import policy name
String Length	1 to 255
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

route-table-import

Context	**configure router** *string* **bgp rib-management ipv4**
Description	Enter the route-table-import context
Introduced	16.0.R1

policy-name *string*

Context	**configure router** *string* **bgp rib-management ipv4 route-table-import**
Description	Policy that controls the importation of active routes from IP route table into one of BGP RIBs
String Length	1 to 64
Introduced	16.0.R1

ipv6

Context	**configure router** *string* **bgp rib-management**
Description	Enter the ipv6 context
Introduced	16.0.R1

leak-import

Context	**configure router** *string* **bgp rib-management ipv6**
Description	Enter the leak-import context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp rib-management ipv6 leak-import**
Description	Leak import policy name
String Length	1 to 255
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

route-table-import

Context	**configure router** *string* **bgp rib-management ipv6**
Description	Enter the route-table-import context
Introduced	16.0.R1

policy-name *string*

Context	**configure router** *string* **bgp rib-management ipv6 route-table-import**
Description	Policy that controls the importation of active routes from IP route table into one of BGP RIBs
String Length	1 to 64
Introduced	16.0.R1

label-ipv4

Context	**configure router** *string* **bgp rib-management**
Description	Enter the label-ipv4 context
Introduced	16.0.R1

leak-import

Context	**configure router** *string* **bgp rib-management label-ipv4**
Description	Enter the leak-import context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **bgp rib-management label-ipv4 leak-import**
Description	Leak import policy name
String Length	1 to 255
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

route-table-import

Context **configure router** *string* **bgp rib-management label-ipv4**

Description Enter the route-table-import context

Introduced 16.0.R1

policy-name *string*

Context **configure router** *string* **bgp rib-management label-ipv4 route-table-import**

Description Policy that controls the importation of active routes from IP route table into one of BGP RIBs

String Length 1 to 64

Introduced 16.0.R1

label-ipv6

Context **configure router** *string* **bgp rib-management**

Description Enter the label-ipv6 context

Introduced 16.0.R1

route-table-import

Context **configure router** *string* **bgp rib-management label-ipv6**

Description Enter the route-table-import context

Introduced 16.0.R1

policy-name *string*

Context **configure router** *string* **bgp rib-management label-ipv6 route-table-import**

Description Policy that controls the importation of active routes from IP route table into one of BGP RIBs

String Length 1 to 64

Introduced 16.0.R1

route-table-install *boolean*

Context **configure router** *string* **bgp**

Description Enable/Disable route table installation

Default true

Introduced 16.0.R1

route-target-list [community-name] *string*

Context	**configure router** *string* **bgp**
Description	Enter the route-target-list context
Introduced	16.0.R1

[community-name] *string*

Context	**configure router** *string* **bgp route-target-list** *string*
Description	Extended community name that is accepted by route reflector server, or advertised by router
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

router-id *ipv4-address*

Context	**configure router** *string* **bgp**
Description	Unique router ID for BGP instance in AS
Introduced	16.0.R1

rr-vpn-forwarding *boolean*

Context	**configure router** *string* **bgp**
Description	Configure BGP to enable route-reflector to resolve the VPN-IPv4 and VPN-IPv6 routes, set itself as the next-hop and generate new labels for all the resolved routes.
Default	false
Introduced	16.0.R1

send-communities

Context	**configure router** *string* **bgp**
Description	Enter the send-communities context
Introduced	16.0.R1

extended *boolean*

Context **configure router** *string* **bgp send-communities**

Description Enables the sending of community attribute to the peer for external communities.

Default true

Introduced 16.0.R1

large *boolean*

Context **configure router** *string* **bgp send-communities**

Description Enables the sending of community attribute to the peer for large communities.

Default true

Introduced 16.0.R1

standard *boolean*

Context **configure router** *string* **bgp send-communities**

Description Enables the sending of community attribute to the peer for non-external communities.

Default true

Introduced 16.0.R1

split-horizon *boolean*

Context **configure router** *string* **bgp**

Description Prevent routes from being reflected back to peer that sends best route

Default false

Introduced 16.0.R1

sr-policy-import *boolean*

Context **configure router** *string* **bgp**

Description Import all statically-configured non-local SR policies into BGP RIB

Default false

Introduced 16.0.R1

third-party-nexthop *boolean*

Context	**configure router** *string* **bgp**
Description	Send third-party next hop to EBGP peers in same subnet as source peer
Default	false
Introduced	16.0.R1

vpn-apply-export *boolean*

Context	**configure router** *string* **bgp**
Description	Apply base instance BGP export route polices to BGP VPN routes
Default	false
Introduced	16.0.R1

vpn-apply-import *boolean*

Context	**configure router** *string* **bgp**
Description	Apply base instance BGP import route polices to BGP VPN routes
Default	false
Introduced	16.0.R1

class-forwarding *boolean*

Context	**configure router** *string*
Description	Allow class-based forwarding over IGP shortcuts
Default	false
Introduced	16.0.R1

confederation

Context	**configure router** *string*
Description	Enter the confederation context
Introduced	16.0.R1

confed-as-num *number*

Context	**configure router** *string* **confederation**
Description	Confederation number within an autonomous system
Range	1 to 4294967295
Introduced	16.0.R1

members [as-number] *number*

Context	**configure router** *string* **confederation**
Description	Enter the members context
Max. Elements	256
Introduced	16.0.R1

[as-number] *number*

Context	**configure router** *string* **confederation members** *number*
Description	AS number to assign to members that are part of the confederation
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dhcp-server

Context	**configure router** *string*
Description	Enter the dhcp-server context
Introduced	16.0.R1

dhcpv4 [name] *string*

Context	**configure router** *string* **dhcp-server**
Description	Enter the dhcpv4 context
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	DHCP server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Administrative state of the DHCP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

failover

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

force-renews *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Send DHCP FORCERENEW messages to force renewal of lease state
Default	false
Introduced	16.0.R1

lease-hold

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Enter the lease-hold context
Introduced	16.0.R1

additional-scenarios

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **lease-hold**
Description	Enter the additional-scenarios context
Introduced	16.0.R1

internal-lease-ipsec *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **lease-hold additional-scenarios**
Description	Enable lease hold timer for internal IPsec clients
Default	false
Introduced	16.0.R1

solicited-release *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **lease-hold additional-scenarios**
Description	Enable lease hold timer for solicited releases
Default	false
Introduced	16.0.R1

time *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **lease-hold**
Description	Lease hold time
Range	1 to 631152000
Units	seconds
Introduced	16.0.R1

pool [pool-name] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Enter the pool context
Introduced	16.0.R1

[pool-name] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	DHCP server pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

failover

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

max-lease-time *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Maximum lease time
Range	10 to 315446399
Default	864000
Units	seconds
Introduced	16.0.R1

min-lease-time *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Minimum lease time
Range	10 to 315446399
Default	600
Units	seconds
Introduced	16.0.R1

minimum-free

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Enter the minimum-free context
Introduced	16.0.R1

absolute *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **minimum-free**
Description	Absolute minimum number for free addresses
Range	0 to 255
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

event-when-depleted *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **minimum-free**
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **minimum-free**
Description	Minimum percentage of free addresses
Range	0 to 100
Introduced	16.0.R1
Notes	This element is part of a choice

nak-non-matching-subnet *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Send a DHCP NAK if a DHCP request IP address does not match any range in this pool
Default	false
Introduced	16.0.R1

offer-time *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Time interval when a DHCP offer remains valid
Range	10 to 600
Default	60
Units	seconds
Introduced	16.0.R1

options

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

subnet [ipv4-prefix] *ipv4-unicast-prefix*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Enter the subnet context
Introduced	16.0.R1

[ipv4-prefix] *ipv4-unicast-prefix*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	IPv4 prefix
Introduced	16.0.R1
Notes	This element is part of a list key

address-range [start] *ipv4-unicast-address* **end** *ipv4-unicast-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the address-range context
Introduced	16.0.R1

[start] *ipv4-unicast-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Start address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-unicast-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	End address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

failover-control-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Failover control type for this range
Default	local
Options	local, remote, access-driven
Introduced	16.0.R1

drain *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Prevent new leases from setting up in this prefix
Default	false
Introduced	16.0.R1

exclude-addresses [start] *ipv4-unicast-address* **end** *ipv4-unicast-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the exclude-addresses context
Introduced	16.0.R1

[start] *ipv4-unicast-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **exclude-addresses** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Start address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-unicast-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **exclude-addresses** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	End address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

maximum-declined *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Maximum number of declined addresses
Default	64
Introduced	16.0.R1

minimum-free

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the minimum-free context
Introduced	16.0.R1

absolute *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **minimum-free**
Description	Absolute minimum number for free addresses
Range	0 to 255
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

event-when-depleted *boolean*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **minimum-free**
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **minimum-free**
Description	Minimum percentage of free addresses
Range	0 to 100
Introduced	16.0.R1
Notes	This element is part of a choice

options

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

pool-selection

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Enter the pool-selection context
Introduced	16.0.R1

use-gi-address

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool-selection**
Description	Enter the use-gi-address context
Introduced	16.0.R1

scope *keyword*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool-selection use-gi-address**
Description	Match the GI address to a specific subnet or pool.
Default	subnet
Options	subnet, pool
Introduced	16.0.R4

use-pool-from-client

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool-selection**
Description	Enter the use-pool-from-client context
Introduced	16.0.R1

delimiter *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string* **pool-selection use-pool-from-client**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1

user-db *string*

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	Local user database for authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

user-identification *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv4** *string*
Description	User identification for DHCPv6
Default	mac-circuit-id
Options	mac-circuit-id, duid, interface-id, interface-id-link-local, client-id, mac, circuit-id, remote-id
Introduced	16.0.R1

dhcpv6 [name] *string*

Context	**configure router** *string* **dhcp-server**
Description	Enter the dhcpv6 context
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	DHCP server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Administrative state of the DHCP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-provisioned *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Auto-provision the pools of this server
Default	false
Introduced	16.0.R1

defaults

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Enter the defaults context
Introduced	16.0.R4

options

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults**
Description	Enter the options context
Introduced	16.0.R4

option [number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options**
Description	Enter the option context
Introduced	16.0.R4

[number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R4
Notes	This element is part of a list key

ascii-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R4
Notes	This element is part of a choice

domain-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R4
Notes	This element is part of a choice

duration *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R4
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

preferred-lifetime *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults**
Description	Time for the prefix to remain preferred.
Range	300 to 315446399
Default	3600
Units	seconds
Introduced	16.0.R4

rebind-time *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults**
Description	Rebind time for the prefix.
Range	0 to 1209600
Default	2880
Units	seconds
Introduced	16.0.R4

renew-time *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults**
Description	Renew time for the prefix.
Range	0 to 604800
Default	1800
Units	seconds
Introduced	16.0.R4

valid-lifetime *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **defaults**
Description	Time for the prefix to remain valid.
Range	300 to 315446399
Default	86400
Units	seconds
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

failover

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

ignore-rapid-commit *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Rapid Commit Option to ignore
Default	false
Introduced	16.0.R1

interface-id-mapping *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Map different hosts using the same interface ID to the same prefix
Default	false
Introduced	16.0.R1

lease-hold

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Enter the lease-hold context
Introduced	16.0.R1

additional-scenarios

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **lease-hold**
Description	Enter the additional-scenarios context
Introduced	16.0.R1

internal-lease-ipsec *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **lease-hold additional-scenarios**
Description	Enable lease hold timer for internal IPsec clients
Default	false
Introduced	16.0.R1

solicited-release *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **lease-hold additional-scenarios**
Description	Enable lease hold timer for solicited releases
Default	false
Introduced	16.0.R1

time *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **lease-hold**
Description	Lease hold time
Range	1 to 631152000
Units	seconds
Introduced	16.0.R1

lease-query *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Allow lease query messages
Default	false
Introduced	16.0.R1

pool [pool-name] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Enter the pool context
Introduced	16.0.R1

[pool-name] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description	DHCP server pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

delegated-prefix

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the delegated-prefix context
Introduced	16.0.R1

length *number*

Context **configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **delegated-prefix**
Description Prefix length for this pool if unspecified by client
Range 48 to 127
Default 64
Introduced 16.0.R1

maximum *number*

Context **configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **delegated-prefix**
Description Maximum delegated prefix length for this pool
Range 48 to 127
Default 64
Introduced 16.0.R1

minimum *number*

Context **configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **delegated-prefix**
Description Minimum delegated prefix length for this pool
Range 48 to 127
Default 48
Introduced 16.0.R1

description *string*

Context **configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

exclude-prefix [ipv6-prefix] *ipv6-prefix*

Context **configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description Enter the exclude-prefix context
Introduced 16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **exclude-prefix** *ipv6-prefix*
Description	IPv6 prefix
Introduced	16.0.R1
Notes	This element is part of a list key

failover

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

options

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

domain-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R1
Notes	This element is part of a choice

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	IPv6 prefix
Introduced	16.0.R1
Notes	This element is part of a list key

drain *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Prevent new leases from setting up in this prefix
Default	false
Introduced	16.0.R1

failover-control-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Failover control type for this range
Default	local
Options	local, remote, access-driven
Introduced	16.0.R1

options

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

domain-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R1
Notes	This element is part of a choice

preferred-lifetime *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Time for the prefix to remain preferred.
Range	300 to 315446399
Default	3600
Units	seconds
Introduced	16.0.R4

prefix-length-threshold [prefix-length] *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Enter the prefix-length-threshold context
Max. Elements	8
Introduced	16.0.R1

[prefix-length] *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Delegated prefix length
Range	1 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

absolute *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Absolute minimum number for free addresses
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

event-when-depleted *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Minimum percentage of free addresses
Range	1 to 100
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-type

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Enter the prefix-type context
Introduced	16.0.R1

pd *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-type**
Description	Aggregate prefix to be used by IPv6 ESM hosts for DHCPv6 prefix delegation
Default	true
Introduced	16.0.R1

wan-host *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-type**
Description	Aggregate prefix to be used by IPv6 ESM hosts, or by routing gateway WAN interface
Default	true
Introduced	16.0.R1

rebind-time *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Rebind time for the prefix.
Range	0 to 1209600
Default	2880
Units	seconds
Introduced	16.0.R4

renew-time *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Renew time for the prefix.
Range	0 to 604800
Default	1800
Units	seconds
Introduced	16.0.R4

valid-lifetime *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Time for the prefix to remain valid.
Range	300 to 315446399
Default	86400
Units	seconds
Introduced	16.0.R4

prefix-length-threshold [prefix-length] *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the prefix-length-threshold context
Max. Elements	8
Introduced	16.0.R1

[prefix-length] *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix-length-threshold** *number*
Description	Delegated prefix length
Range	1 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

event-when-depleted *boolean*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix-length-threshold** *number*
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

minimum-free-percent *number*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool** *string* **prefix-length-threshold** *number*
Description	Percentage of free prefixes for this prefix length
Range	0 to 100
Default	0
Introduced	16.0.R1

pool-selection

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Enter the pool-selection context
Introduced	16.0.R1

use-link-address

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool-selection**
Description	Enter the use-link-address context
Introduced	16.0.R1

scope *keyword*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool-selection use-link-address**
Description	Match a specific pool or prefix using the DHCPv6 relay link address.
Default	subnet
Options	subnet, pool
Introduced	16.0.R4

use-pool-from-client

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool-selection**
Description	Enter the use-pool-from-client context
Introduced	16.0.R1

delimiter *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **pool-selection use-pool-from-client**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1

server-id

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	Enter the server-id context
Introduced	16.0.R1

duid-enterprise

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **server-id**
Description	Enter the **duid-enterprise** context
Introduced	16.0.R1

ascii-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **server-id duid-enterprise**
Description	DUID enterprise value as an ASCII string
String Length	1 to 58
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **server-id duid-enterprise**
Description	DUID enterprise value as a hexadecimal string
String Length	1 to 118
Introduced	16.0.R1
Notes	This element is part of a choice

duid-link-local

Context	**configure router** *string* **dhcp-server dhcpv6** *string* **server-id**
Description	DUID (DHCP Unique Identifier) type code link local
Introduced	16.0.R1
Notes	This element is part of a choice

user-identification *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **dhcp-server dhcpv6** *string*
Description	User identification for DHCPv6
Default	duid
Options	mac-circuit-id, duid, interface-id, interface-id-link-local, client-id, mac, circuit-id, remote-id
Introduced	16.0.R1

ecmp *number*

Context	**configure router** *string*
Description	Maximum number of equal cost routes allowed on this routing table instance
Range	1 to 64
Default	1
Introduced	16.0.R1

entropy-label *boolean*

Context	**configure router** *string*
Description	Use entropy label
Default	false
Introduced	16.0.R1

fib-priority *keyword*

Context	**configure router** *string*
Description	FIB (Forwarding Information Base) priority
Default	standard
Options	standard, high
Introduced	16.0.R1

fib-telemetry *boolean*

Context	**configure router** *string*
Description	Enable/disable fib telemetry collection.
Default	false
Introduced	16.0.R4

firewall

Context	**configure router** *string*
Description	Enter the firewall context
Introduced	16.0.R1

domain [name] *string*

Context	**configure router** *string* **firewall**
Description	Enter the domain context
Max. Elements	1024
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **firewall domain** *string*
Description	Firewall domain name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **firewall domain** *string*
Description	Administrative state of the firewall domain
Default	disable
Options	enable, disable
Introduced	16.0.R1

dhcpv6-server

Context	**configure router** *string* **firewall domain** *string*
Description	Enter the dhcpv6-server context
Introduced	16.0.R1

name *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **firewall domain** *string* **dhcpv6-server**
Description	DHCPv6 server name
String Length	1 to 32
Introduced	16.0.R1

router-instance *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **firewall domain** *string* **dhcpv6-server**
Description	Router name
Introduced	16.0.R1

nat-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **firewall domain** *string*
Description	NAT group
Reference	configure **isa nat-group** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

prefix [ip-prefix] *ipv6-unicast-prefix*

Context	**configure router** *string* **firewall domain** *string*
Description	Enter the prefix context
Max. Elements	4096
Introduced	16.0.R1

[ip-prefix] *ipv6-unicast-prefix*

Context	**configure router** *string* **firewall domain** *string* **prefix** *ipv6-unicast-prefix*
Description	Prefix attribute and prefix length
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **firewall domain** *string* **prefix** *ipv6-unicast-prefix*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

wlan-gw-group *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **firewall domain** *string*
Description	WLAN GW group used for NAT
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

flowspec

Context	**configure router** *string*
Description	Enter the flowspec context
Introduced	16.0.R1

ip-filter-max-size *number*

Context	**configure router** *string* **flowspec**
Description	Maximum number of entries in IP filter for flowspec rules
Range	0 to 262143
Default	512
Introduced	16.0.R1

ipv6-filter-max-size *number*

Context	**configure router** *string* **flowspec**
Description	Maximum number of entries in IPv6 filter for flowspec rules
Range	0 to 262143
Default	512
Introduced	16.0.R1

gtp

Context	**configure router** *string*
Description	Enter the gtp context
Introduced	16.0.R1

s11

Context	**configure router** *string* **gtp**
Description	Enter the s11 context
Introduced	16.0.R1

interface [interface-name] *string*

Context	**configure router** *string* **gtp s11**
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *string*

Context	**configure router** *string* **gtp s11 interface** *string*
Description	Name for the s11 interface
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

apn-policy *string*

Context **configure router** *string* **gtp s11 interface** *string*

Description APN policy for the S11 interface

Reference configure **subscriber-mgmt gtp apn-policy** *string*

Introduced 16.0.R1

peer-profile-map

Context **configure router** *string* **gtp s11**

Description Enter the peer-profile-map context

Introduced 16.0.R1

prefix [peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure router** *string* **gtp s11 peer-profile-map**

Description Enter the prefix context

Introduced 16.0.R1

[peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure router** *string* **gtp s11 peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)

Description IP prefix and prefix length for the subnet

Introduced 16.0.R1

Notes This element is part of a list key

peer-profile *string*

Context **configure router** *string* **gtp s11 peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)

Description Peer profile used for peers in this prefix

Reference configure **subscriber-mgmt gtp peer-profile** *string*

Introduced 16.0.R1

Notes This element is mandatory

uplink

Context **configure router** *string* **gtp**

Description Enter the uplink context

Introduced 16.0.R1

apn *string*

Context **configure router** *string* **gtp uplink**

Description Network Identifier part of APN

String Length 1 to 80

Introduced 16.0.R1

pdn-type *keyword*

Context **configure router** *string* **gtp uplink**

Description Default 3GPP PDN in GTP

Default ipv4

Options ipv4, ipv6, ipv4v6

Introduced 16.0.R1

peer-profile-map

Context **configure router** *string* **gtp uplink**

Description Enter the peer-profile-map context

Introduced 16.0.R1

prefix [peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure router** *string* **gtp uplink peer-profile-map**

Description Enter the prefix context

Introduced 16.0.R1

[peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **gtp uplink peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP prefix and prefix length of the subnet
Introduced	16.0.R1
Notes	This element is part of a list key

peer-profile *string*

Context	**configure router** *string* **gtp uplink peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Peer profile name
Reference	configure **subscriber-mgmt gtp peer-profile** *string*
Introduced	16.0.R1
Notes	This element is mandatory

icmp-tunneling *boolean*

Context	**configure router** *string*
Description	Allow tunneling of ICMP reply packets over MPLS LSP at an LSR node
Default	false
Introduced	16.0.R1

igmp

Context	**configure router** *string*
Description	Enter the igmp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **igmp**
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

group-if-query-source-address *ipv4-unicast-address*

Context	**configure router** *string* **igmp**
Description	Source address in queries for group interfaces when not configured at group interface level
Introduced	16.0.R1

group-interface [group-interface-name] *interface-name*

Context	**configure router** *string* **igmp**
Description	Enter the group-interface context
Introduced	16.0.R1

[group-interface-name] *interface-name*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context **configure router** *string* **igmp group-interface** *interface-name*

Description Maximum number of group sources

Range 1 to 32000

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure router** *string* **igmp group-interface** *interface-name*

Description Max groups number for which IGMP can have local receiver information based on received IGMP reports

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure router** *string* **igmp group-interface** *interface-name*

Description Maximum number of sources that are allowed per group

Range 1 to 1000

Introduced 16.0.R1

mcac

Context **configure router** *string* **igmp group-interface** *interface-name*

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure router** *string* **igmp group-interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure router** *string* **igmp group-interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure router** *string* **igmp group-interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure router** *string* **igmp group-interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure router** *string* **igmp group-interface** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context **configure router** *string* **igmp group-interface** *interface-name*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure router** *string* **igmp group-interface** *interface-name*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

query-source-address *ipv4-unicast-address*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Source address for IGMP queries
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

sub-hosts-only *boolean*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Allow IGMP traffic from known hosts only
Default	true
Introduced	16.0.R1

subnet-check *boolean*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	Enable subnet checking
Default	true
Introduced	16.0.R1

version *keyword*

Context	**configure router** *string* **igmp group-interface** *interface-name*
Description	IGMP protocol version
Default	3
Options	1, 2, 3
Introduced	16.0.R1

interface [ip-interface-name] *interface-name*

Context	**configure router** *string* **igmp**
Description	Enter the interface context
Introduced	16.0.R1

[ip-interface-name] *interface-name*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Enter the mcac context
Introduced	16.0.R1

bandwidth

Context	**configure router** *string* **igmp interface** *interface-name* **mcac**
Description	Enter the bandwidth context
Introduced	16.0.R1

mandatory (*number* | *keyword*)

Context	**configure router** *string* **igmp interface** *interface-name* **mcac bandwidth**
Description	Pre-reserved bandwidth for all mandatory channels.
Introduced	16.0.R1

total (*number* | *keyword*)

Context **configure router** *string* **igmp interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure router** *string* **igmp interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure router** *string* **igmp interface** *interface-name* **mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

level [level-id] *number*

Context **configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints**

Description Enter the level context

Introduced 16.0.R1

[level-id] *number*

Context **configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints level** *number*

Description Bandwidth level ID for a multicast CAC constraint

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

bandwidth *number*

Context	**configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth available for this level
Range	0 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

number-down [number-lag-port-down] *number*

Context	**configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints**
Description	Enter the number-down context
Introduced	16.0.R1

[number-lag-port-down] *number*

Context	**configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Number of LAG ports down
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context	**configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure router** *string* **igmp interface** *interface-name* **mcac mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

policy *string*

Context **configure router** *string* **igmp interface** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context **configure router** *string* **igmp interface** *interface-name*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure router** *string* **igmp interface** *interface-name*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context **configure router** *string* **igmp interface** *interface-name*

Description Time to wait for a response to the host-query messages

Range 1 to 1023

Introduced 16.0.R1

redundant-mcast *boolean*

Context **configure router** *string* **igmp interface** *interface-name*

Description Exchange the interface state information with MCS

Default false

Introduced 16.0.R1

router-alert-check *boolean*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

ssm-translate

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv4-multicast-address* **end** *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

static

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group** *ipv4-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group** *ipv4-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure router** *string* **igmp interface** *interface-name* **static group** *ipv4-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

group-range start *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	Start of group range of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-multicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	End of group range for multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

step *ipv4-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	Step interval for the group-range addresses
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure router** *string* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

subnet-check *boolean*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	Enable subnet checking
Default	true
Introduced	16.0.R1

version *keyword*

Context	**configure router** *string* **igmp interface** *interface-name*
Description	IGMP protocol version
Default	3
Options	1, 2, 3
Introduced	16.0.R1

query-interval *number*

Context	**configure router** *string* **igmp**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure router** *string* **igmp**
Description	Time between group-specific query messages
Range	1 to 1023
Default	1
Units	seconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure router** *string* **igmp**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure router** *string* **igmp**
Description	Number of retries after message loss
Range	2 to 10
Default	2
Introduced	16.0.R1

ssm-translate

Context	**configure router** *string* **igmp**
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv4-multicast-address* **end** *ipv4-multicast-address*

Context	**configure router** *string* **igmp ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv4-multicast-address*

Context	**configure router** *string* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-multicast-address*

Context	**configure router** *string* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

tunnel-interface

Context	**configure router** *string* **igmp**
Description	Enter the tunnel-interface context
Introduced	16.0.R1

ldp-p2mp-root [p2mp-id] *string* **sender-address** *string*

Context	**configure router** *string* **igmp tunnel-interface**
Description	Enter the ldp-p2mp-root context
Introduced	16.0.R1

[p2mp-id] *string*

Context	**configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string*
Description	LDP p2mp Id.
Reference	configure **router** *string* **tunnel-interface ldp-p2mp-root** *number* **sender-address** *ipv4-unicast-address*
Introduced	16.0.R1
Notes	This element is part of a list key

sender-address *string*

Context	**configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string*
Description	The sender address of the root node.
Reference	configure **router** *string* **tunnel-interface ldp-p2mp-root** *number* **sender-address** *ipv4-unicast-address*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

static

Context	**configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv4-multicast-address*

Context **configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string* **static**

Description Enter the group context

Introduced 16.0.R1

[group-address] *ipv4-multicast-address*

Context **configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string* **static group** *ipv4-multicast-address*

Description Group address of multicast channel

Introduced 16.0.R1

Notes This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context **configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string* **static group** *ipv4-multicast-address*

Description Enter the **source** context

Introduced 16.0.R3

[source-address] *ipv4-unicast-address*

Context **configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string* **static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*

Description Source address of multicast channel.

Introduced 16.0.R3

Notes This element is part of a choice

This element is part of a list key

starg

Context **configure router** *string* **igmp tunnel-interface ldp-p2mp-root** *string* **sender-address** *string* **static group** *ipv4-multicast-address*

Description any source address (*,G)

Introduced 16.0.R3

Notes This element is part of a choice

rsvp-p2mp-root [lsp-name] *string*

Context	**configure router** *string* **igmp tunnel-interface**
Description	Enter the rsvp-p2mp-root context
Introduced	16.0.R1

[lsp-name] *string*

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string*
Description	RSVP p2mp lsp name.
Reference	configure **router** *string* **tunnel-interface rsvp-p2mp-root** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

static

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv4-multicast-address*

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string* **static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv4-multicast-address*

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string* **static group** *ipv4-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string* **static group** *ipv4-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string* **static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure router** *string* **igmp tunnel-interface rsvp-p2mp-root** *string* **static group** *ipv4-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

interface [interface-name] *interface-name*

Context	**configure router** *string*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name*
Description	Administrative state of the interface
Options	enable, disable
Introduced	16.0.R1

cflowd-parameters

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the cflowd-parameters context
Introduced	16.0.R1

sampling [sampling-type] *keyword*

Context	**configure router** *string* **interface** *interface-name* **cflowd-parameters**
Description	Enter the sampling context
Introduced	16.0.R1

[sampling-type] *keyword*

Context	**configure router** *string* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	Cflowd sampling type for virtual router interface
Options	unicast, multicast
Introduced	16.0.R1
Notes	This element is part of a list key

direction *keyword*

Context	**configure router** *string* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The direction of the Cflowd analysis that is applied to the given interface.
Default	ingress-only
Options	ingress-only, egress-only, both
Introduced	16.0.R4

type *keyword*

Context	**configure router** *string* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The type of Cflowd analysis that is applied to the given interface.
Options	acl, interface
Introduced	16.0.R4
Notes	This element is mandatory

cpu-protection *string*

Context	**configure router** *string* **interface** *interface-name*
Description	CPU protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **interface** *interface-name*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure router** *string* **interface** *interface-name*
Description	Distributed CPU protection policy
Reference	configure **system security dist-cpu-protection policy** *string*
Introduced	16.0.R1

egress

Context **configure router** *string* **interface** *interface-name*
Description Enter the egress context
Introduced 16.0.R1

filter

Context **configure router** *string* **interface** *interface-name* **egress**
Description Enter the filter context
Introduced 16.0.R1

ip *string*

Context **configure router** *string* **interface** *interface-name* **egress filter**
Description IP filter
Reference configure **filter ip-filter** *filter-name*
Introduced 16.0.R1

ipv6 *string*

Context **configure router** *string* **interface** *interface-name* **egress filter**
Description IPv6 filter
Reference configure **filter ipv6-filter** *filter-name*
Introduced 16.0.R1

eth-cfm

Context **configure router** *string* **interface** *interface-name*
Description Enter the eth-cfm context
Introduced 16.0.R1

mep **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Context **configure router** *string* **interface** *interface-name* **eth-cfm**
Description Enter the mep context
Max. Elements 1
Introduced 16.0.R1

md-admin-name *string*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

alarm-notification

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

ccm-tlv-ignore *keyword*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	TLV to ignore on reception
Options	interface-status, port-status
Max. Elements	2
Introduced	16.0.R1

collect-lmm-fc-stats

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-test

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

facility-fault *boolean*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Allow the facility MEP to move from alarming only to network actionable function

Default false

Introduced 16.0.R1

grace

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

lbm-svc-act-responder *boolean*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Process service activation streams encapsulated in ETH-CFM request Loopback Message
Default	false
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect for MEP AIS generation
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

mac-address *mac-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure router** *string* **interface** *interface-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

flavor *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name*
Description	Network interface flavor
Default	regular
Options	regular, control-tunnel, pdn, unnumbered-mpls-tp, gmpls-loopback
Introduced	16.0.R1

gre-termination *boolean*

Context	**configure router** *string* **interface** *interface-name*
Description	GRE termination that is selected in virtual router for the primary subnet
Default	false
Introduced	16.0.R1

hold-time

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the hold-time context
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **interface** *interface-name* **hold-time**
Description	Enter the ipv4 context
Introduced	16.0.R1

down

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv4**
Description	Enter the down context
Introduced	16.0.R1

init-only *boolean*

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv4 down**
Description	Apply down delay only when interface is configured or after reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv4 down**
Description	Down hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv4**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv4 up**
Description	Up hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

ipv6

Context	**configure router** *string* **interface** *interface-name* **hold-time**
Description	Enter the ipv6 context
Introduced	16.0.R1

down

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv6**
Description	Enter the down context
Introduced	16.0.R1

init-only *boolean*

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv6 down**
Description	Apply hold time only when IP interface is first configured or after system reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv6 down**
Description	Down hold time for the IPv6 interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv6**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **hold-time ipv6 up**
Description	Up hold time for the IPv6 interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

if-attribute

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the if-attribute context
Introduced	16.0.R1

admin-group *string*

Context	**configure router** *string* **interface** *interface-name* **if-attribute**
Description	Name of the Admin group membership of the interface
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

srlg-group [name] *string*

Context	**configure router** *string* **interface** *interface-name* **if-attribute**
Description	Enter the srlg-group context
Introduced	16.0.R1

[name] *string*

Context **configure router** *string* **interface** *interface-name* **if-attribute srlg-group** *string*

Description Shared Risk Link Group (SRLG) name

Reference configure **routing-options if-attribute srlg-group** *string*

Introduced 16.0.R1

Notes This element is part of a list key

ingress

Context **configure router** *string* **interface** *interface-name*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure router** *string* **interface** *interface-name* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure router** *string* **interface** *interface-name* **ingress filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure router** *string* **interface** *interface-name* **ingress filter**

Description IPv6 filter

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

ingress-stats *boolean*

Context	**configure router** *string* **interface** *interface-name*
Description	Collect ingress statistics
Default	false
Introduced	16.0.R1

ip-mtu *number*

Context	**configure router** *string* **interface** *interface-name*
Description	IP MTU interface
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

ip-tunnel

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the ip-tunnel context
Introduced	16.0.R1

remote-ip *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ip-tunnel**
Description	IP address of the remote end of the IP tunnel
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

allow-directed-broadcasts *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Forward directed broadcasts
Default	false
Introduced	16.0.R1

bfd

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 bfd**
Description	BFD transmit interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 bfd**
Description	BFD session termination
Default	auto
Options	cpm-np, auto
Introduced	16.0.R1

dhcp

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the dhcp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Administratively enable/disable DHCP.
Default	disable
Options	enable, disable
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Add/remove a text description for DHCP.
String Length	1 to 80
Introduced	16.0.R4

gi-address *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Configure the gateway interface address for the DHCP relay.
Introduced	16.0.R4

option-82

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Enter the option-82 context
Introduced	16.0.R4

action *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82**
Description	What to do with DHCP option 82.
Default	keep
Options	replace, drop, keep
Introduced	16.0.R4

circuit-id

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the circuit-id context

Introduced 16.0.R4

ascii-tuple

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

if-name

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use interface name in the option.

Introduced 16.0.R4

Notes This element is part of a choice

ifindex

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ifindex in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Do not include the circuit-id.

Introduced 16.0.R4

Notes This element is part of a choice

port-id

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**
Description	Use port ID in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

vlan-ascii-tuple

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**
Description	Use vlan-ascii-tuple in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

remote-id

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82**
Description	Enter the remote-id context
Introduced	16.0.R4

ascii-string *string*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**
Description	Use user-defined ASCII string in the option.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

mac

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**
Description	Use MAC address in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

none

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**
Description	Do not include the remote-id.
Introduced	16.0.R4
Notes	This element is part of a choice

vendor-specific-option

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82**
Description	Enter the vendor-specific-option context
Introduced	16.0.R4

client-mac-address *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**
Description	Send the MAC address in the Nokia vendor specific suboption.
Default	false
Introduced	16.0.R4

pool-name *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**
Description	Send the pool name in the Nokia vendor specific suboption.
Default	false
Introduced	16.0.R4

port-id *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**
Description	Send the port ID in the Nokia vendor specific suboption.
Default	false
Introduced	16.0.R4

service-id *boolean*

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

python-policy *string*

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp**

Description Python policy.

Reference configure **python python-policy** *string*

Introduced 16.0.R4

relay-plain-bootp *boolean*

Context **configure router** *string* **interface** *interface-name* **ipv4 dhcp**

Description Enable/disable relaying of plain BOOTP packets.

Default false

Introduced 16.0.R4

server *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

trusted *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable relaying of untrusted packets.
Default	false
Introduced	16.0.R4

icmp

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the icmp context
Introduced	16.0.R1

mask-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp**
Description	Allow responses to ICMP mask requests
Default	true
Introduced	16.0.R1

param-problem

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp**

Description Enter the param-problem context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp param-problem**

Description Administrative state of sending parameter-problem messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp param-problem**

Description Number of parameter-problem ICMP messages to send in specified time interval

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp param-problem**

Description Time used to limit number of parameter-problem ICMP messages issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

redirects

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp**

Description Enter the redirects context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp redirects**
Description	Administrative state of sending ICMP redirects
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp redirects**
Description	Maximum number of ICMP redirect messages to send
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp redirects**
Description	Time to limit the number of ICMP redirect messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ttl-expired

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp**
Description	Enter the ttl-expired context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Administrative state of sending TTL expired messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description Maximum number of TTL expired messages to send
Range 10 to 2000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description Time to limit the number of ICMP TTL expired messages that can be issued
Range 1 to 60
Default 10
Units seconds
Introduced 16.0.R1

unreachables

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp**
Description Enter the unreachables context
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp unreachables**
Description Administrative state of sending unreachable messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure router** *string* **interface** *interface-name* **ipv4 icmp unreachables**
Description Maximum number of unreachable messages to send
Range 10 to 2000
Default 100
Introduced 16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 icmp unreachables**
Description	Time to limit the number of unreachable messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ip-helper-address *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Gateway address
Introduced	16.0.R1

local-dhcp-server *string*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	DHCP server for the interface
Reference	configure **router** *string* **dhcp-server dhcpv4** *string*
Introduced	16.0.R1

neighbor-discovery

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the neighbor-discovery context
Introduced	16.0.R1

learn-unsolicited *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow ARP application to learn new entries based on any received ARP message
Default	false
Introduced	16.0.R1

limit

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Log warning messages at threshold or when limit is exceeded, however entries are learned above limit
Default	false
Introduced	16.0.R1

max-entries *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Maximum number of entries that can be learned on an IP interface
Range	0 to 524288
Introduced	16.0.R1

threshold *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Threshold value that triggers a warning message to be sent
Range	1 to 100
Default	90
Units	percent
Introduced	16.0.R1

local-proxy-arp *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable local proxy ARP on interface
Default	false
Introduced	16.0.R1

proactive-refresh *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Send a single refresh message with no retries 30 seconds prior to entry timeout
Default	false
Introduced	16.0.R1

proxy-arp-policy *string*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Proxy ARP policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

remote-proxy-arp *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable remote proxy ARP on interface
Default	false
Introduced	16.0.R1

retry-timer *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP retry interval
Range	1 to 300
Default	50
Units	deciseconds
Introduced	16.0.R1

static-neighbor [ipv4-address] *ipv4-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor context
Introduced	16.0.R1

[ipv4-address] *ipv4-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	IPv4 address corresponding to the media-dependent physical address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-address *mac-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

static-neighbor-unnumbered

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor-unnumbered context
Introduced	16.0.R1

mac-address *mac-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor-unnumbered**
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Timeout for an ARP entry learned on the interface
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

primary

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the primary context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is mandatory

broadcast *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 primary**
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

prefix-length *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 primary**
Description	Track the state of the SRRP instance on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

qos-route-lookup *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Perform QoS Route lookup
Options	destination, source
Introduced	16.0.R1

secondary [address] *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the secondary context
Introduced	16.0.R1

[address] *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

broadcast *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

igp-inhibit *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Secondary IP address that is not recognized as local interface by the running IGP
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Track the state of the SRRP instance on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

tcp-mss *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	TCP maximum segment size for the interface
Range	384 to 9158
Introduced	16.0.R1

unnumbered

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the unnumbered context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 unnumbered**
Description	IP address of the interface
Introduced	16.0.R1
Notes	This element is part of a choice

ip-int-name *interface-name*

Context	**configure router** *string* **interface** *interface-name* **ipv4 unnumbered**
Description	Interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

system

Context	**configure router** *string* **interface** *interface-name* **ipv4 unnumbered**
Description	IP interface as an unnumbered interface
Introduced	16.0.R1
Notes	This element is part of a choice

urpf-check

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the urpf-check context
Introduced	16.0.R1

ignore-default *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 urpf-check**
Description	Ignore default route when performing a uRPF check
Default	false
Introduced	16.0.R1

mode *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 urpf-check**
Description	Unicast RPF check mode
Default	strict
Options	strict, loose, strict-no-ecmp
Introduced	16.0.R1

vrrp [virtual-router-id] *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4**
Description	Enter the vrrp context
Introduced	16.0.R1

[virtual-router-id] *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Virtual Router Identifier (VRID) for the VRRP virtual router instance
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Administrative state of VRRP
Default	enable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

authentication-key *encrypted-leaf*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Password for simple text authentication
String Length	1 to 38
Introduced	16.0.R1

backup *ipv4-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Virtual router IP addresses for the interface
Max. Elements	16
Introduced	16.0.R1

bfd-liveness

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv4-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Destination IP address to be used for BFD session
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

init-delay *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	VRRP initialization delay timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	MAC address used by virtual router instance overriding the VRRP default derived from the VRID
Introduced	16.0.R1

master-int-inherit *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the master instance to dictate the master down timer
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

message-interval *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Interval for sending VRRP Advertisement messages
Range	1 to 2559
Default	10
Units	deciseconds
Introduced	16.0.R1

oper-group *string*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Operational group name associated with VRRP
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

owner



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Designate virtual router instance as owning the virutal router IP addresses
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Suppress the transmission and reception of VRRP advertisement messages
Default	false
Introduced	16.0.R1

ping-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to ICMP echo requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	VRRP priority control policy associated with the virtual router instance
Reference	configure **vrrp policy** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

preempt *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the VRRP to override an existing non-owner master
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

priority *number*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Base priority for the VRRP
Range	1 to 255
Introduced	16.0.R1

ssh-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to SSH requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

standby-forwarding *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the forwarding of packets by a standby router
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

telnet-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to Telnet requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

traceroute-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to traceroute requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the ipv6 context
Introduced	16.0.R1

address [ipv6-address] *ipv6-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enter the address context
Introduced	16.0.R1

[ipv6-address] *ipv6-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

duplicate-address-detection *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Enable/disable Duplicate Address Detection.
Default	true
Introduced	16.0.R1

eui-64 *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Form complete IPv6 address from supplied prefix and 64-bit interface identifier
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address prefix length
Range	0 to 128
Introduced	16.0.R1
Notes	This element is mandatory

primary-preference *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Order to enforce in which the address is used from control plane protocols and applications
Range	1 to 4294967295
Introduced	16.0.R1

track-srrp *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Track the state of the SRRP instance on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

bfd

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 bfd**
Description	BFD transmit interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 bfd**
Description	BFD session termination
Default	auto
Options	cpm-np, auto
Introduced	16.0.R1

duplicate-address-detection *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enable/disable Duplicate Address Detection.
Default	true
Introduced	16.0.R1

icmp6

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enter the icmp6 context
Introduced	16.0.R1

packet-too-big

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6**
Description	Enter the packet-too-big context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6 packet-too-big**
Description	Administrative state of packet-too-big messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6 packet-too-big**
Description	Number of packet-too-big messages
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 packet-too-big**
Description Time to limit packet-too-big messages
Range 1 to 60
Default 10
Introduced 16.0.R1

param-problem

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6**
Description Enter the param-problem context
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 param-problem**
Description Administrative state of param-problem messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 param-problem**
Description Number of parameter-problem messages
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 param-problem**
Description Time to limit parameter problem messages
Range 1 to 60
Default 10
Introduced 16.0.R1

redirects

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6**
Description	Enter the redirects context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6 redirects**
Description	Administrative state of the redirect messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6 redirects**
Description	Number of redirect messages
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6 redirects**
Description	Time to limit redirect messages
Range	1 to 60
Default	10
Introduced	16.0.R1

time-exceeded

Context	**configure router** *string* **interface** *interface-name* **ipv6 icmp6**
Description	Enter the time-exceeded context
Introduced	16.0.R1

admin-state *keyword*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 time-exceeded**

Description Administrative state of the time-exceeded messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 time-exceeded**

Description Number of time-exceeded messages

Range 10 to 2000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 time-exceeded**

Description Time to limit time-exceeded messages

Range 1 to 60

Default 10

Introduced 16.0.R1

unreachables

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6**

Description Enter the unreachables context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 unreachables**

Description Administrative state of the unreachable messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 unreachables**

Description Number of unreachable messages

Range 10 to 2000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure router** *string* **interface** *interface-name* **ipv6 icmp6 unreachables**

Description Time to limit unreachable messages

Range 1 to 60

Default 10

Introduced 16.0.R1

link-local-address

Context **configure router** *string* **interface** *interface-name* **ipv6**

Description Enter the link-local-address context

Introduced 16.0.R1

address *ipv6-address*

Context **configure router** *string* **interface** *interface-name* **ipv6 link-local-address**

Description Link-local IPv6 address of this router interface

Introduced 16.0.R1

duplicate-address-detection *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure router** *string* **interface** *interface-name* **ipv6 link-local-address**

Description Enable/disable Duplicate Address Detection.

Default true

Introduced 16.0.R1

local-dhcp-server *string*

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	DHCP server for the interface
Reference	configure **router** *string* **dhcp-server dhcpv6** *string*
Introduced	16.0.R1

neighbor-discovery

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enter the neighbor-discovery context
Introduced	16.0.R1

learn-unsolicited *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Type of entries learned from unsolicited NA messages
Options	global, link-local, both
Introduced	16.0.R1

limit

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Log warning messages at threshold or when limit is exceeded, however entries are learned above limit
Default	false
Introduced	16.0.R1

max-entries *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Maximum number of entries that can be learned on an IP interface
Range	0 to 102400
Introduced	16.0.R1

threshold *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Threshold value that triggers a warning message to be sent
Range	1 to 100
Default	90
Units	percent
Introduced	16.0.R1

local-proxy-nd *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enable neighbor discovery on interface
Default	false
Introduced	16.0.R1

proactive-refresh *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Neighbor entries to be refreshed proactively
Options	global, link-local, both
Introduced	16.0.R1

proxy-nd-policy *string*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Name of the proxy Neighbor Discovery policies for the interface
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

reachable-time *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Timer for neighbor reachability detection
Range	30 to 3600
Introduced	16.0.R1

secure-nd

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the secure-nd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Administrative state of secure neighbor discovery
Default	disable
Options	enable, disable
Introduced	16.0.R1

allow-unsecured-msgs *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Accept unsecured messages
Default	true
Introduced	16.0.R1

public-key-min-bits *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Minimum acceptable key length for public keys
Range	512 to 1024
Default	1024
Introduced	16.0.R1

security-parameter *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Security parameter in the generation of a cryptographical address
Range	0 to 1
Default	1
Introduced	16.0.R1

stale-time *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Time during which a neighbor discovery cache entry remains stale
Range	60 to 65535
Introduced	16.0.R1

static-neighbor [ipv6-address] *ipv6-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the static-neighbor context
Introduced	16.0.R1

[ipv6-address] *ipv6-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery static-neighbor** *ipv6-address*
Description	IPv6 address corresponding to the media-dependent physical address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-address *mac-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6 neighbor-discovery static-neighbor** *ipv6-address*
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

qos-route-lookup *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Perform QoS Route lookup
Options	destination, source
Introduced	16.0.R1

tcp-mss *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	TCP maximum segment size for the interface
Range	1220 to 9138
Introduced	16.0.R1

urpf-check

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enter the urpf-check context
Introduced	16.0.R1

ignore-default *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 urpf-check**
Description	Ignore default route when performing a uRPF check
Default	false
Introduced	16.0.R1

mode *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 urpf-check**
Description	Unicast RPF check mode
Default	strict
Options	strict, loose, strict-no-ecmp
Introduced	16.0.R1

vrrp [virtual-router-id] *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6**
Description	Enter the vrrp context
Max. Elements	1
Introduced	16.0.R1

[virtual-router-id] *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Virtual Router Identifier (VRID) for the VRRP virtual router instance
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Administrative state of VRRP
Default	enable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

backup *ipv6-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Virtual router IP addresses for the interface
Max. Elements	4
Introduced	16.0.R1

bfd-liveness

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv6-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	ip-address.
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

init-delay *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	VRRP initialization delay timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	MAC address used by virtual router instance overriding the VRRP default derived from the VRID
Introduced	16.0.R1

master-int-inherit *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the master instance to dictate the master down timer
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

message-interval *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Interval for sending VRRP Advertisement messages
Range	1 to 4095
Default	100
Units	centiseconds
Introduced	16.0.R1

oper-group *string*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Operational group name associated with VRRP
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

owner



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Designate virtual router instance as owning the virutal router IP addresses
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Suppress the transmission and reception of VRRP advertisement messages
Default	false
Introduced	16.0.R1

ping-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to ICMP echo requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	VRRP priority control policy associated with the virtual router instance
Reference	configure **vrrp policy** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

preempt *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the VRRP to override an existing non-owner master
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

priority *number*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Base priority for the VRRP
Range	1 to 255
Introduced	16.0.R1

standby-forwarding *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the forwarding of packets by a standby router
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

telnet-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to Telnet requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

traceroute-reply *boolean*

Context	**configure router** *string* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to traceroute requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

lag

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the lag context
Introduced	16.0.R1

link-map-profile *number*

Context	**configure router** *string* **interface** *interface-name* **lag**
Description	LAG link map profile applied to a SAP or network interface
Range	1 to 64
Introduced	16.0.R1

per-link-hash

Context	**configure router** *string* **interface** *interface-name* **lag**
Description	Enter the per-link-hash context
Introduced	16.0.R1

class *number*

Context	**configure router** *string* **interface** *interface-name* **lag per-link-hash**
Description	Class used on LAG egress when using weighted per-link-hash
Range	1 to 3
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure router** *string* **interface** *interface-name* **lag per-link-hash**
Description	Weight used on LAG egress when using weighted per-link-hash
Range	1 to 1024
Default	1
Introduced	16.0.R1

ldp-sync-timer

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the ldp-sync-timer context
Introduced	16.0.R1

end-of-lib *boolean*

Context	**configure router** *string* **interface** *interface-name* **ldp-sync-timer**
Description	Terminate LDP sync timer
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure router** *string* **interface** *interface-name* **ldp-sync-timer**
Description	Value for the LDP SYNC timer
Range	1 to 1800
Introduced	16.0.R1

load-balancing

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the load-balancing context
Introduced	16.0.R1

ip-load-balancing *keyword*

Context	**configure router** *string* **interface** *interface-name* **load-balancing**
Description	Configure IP load balancing algorithm.
Default	both
Options	both, destination, source, inner-ip
Introduced	16.0.R3

lsr-load-balancing *keyword*

Context	**configure router** *string* **interface** *interface-name* **load-balancing**
Description	LSR load balancing algorithm
Options	lbl-only, lbl-ip, ip-only, eth-encap-ip, lbl-ip-l4-teid
Introduced	16.0.R1

spi-load-balancing *boolean*

Context	**configure router** *string* **interface** *interface-name* **load-balancing**
Description	Allow use of SPI (Security Parameter Index) in hashing for ESP/AH encrypted IPv4/IPv6 traffic
Default	false
Introduced	16.0.R1

teid-load-balancing *boolean*

Context	**configure router** *string* **interface** *interface-name* **load-balancing**
Description	Include TEID in hashing algorithm for GTP-U/C encapsulated traffic
Default	false
Introduced	16.0.R1

loopback

Context	**configure router** *string* **interface** *interface-name*
Description	Use interface as a loopback interface
Introduced	16.0.R1
Notes	This element is part of a choice

mac *mac-unicast-address*

Context	**configure router** *string* **interface** *interface-name*
Description	MAC address for the interface
Introduced	16.0.R1

mac-accounting *boolean*

Context	**configure router** *string* **interface** *interface-name*
Description	MAC Accounting functionality
Default	false
Introduced	16.0.R1

network-domains

Context	**configure router** *string* **interface** *interface-name*
Description	Enter the network-domains context
Introduced	16.0.R4

network-domain [domain-name] *string*

Context	**configure router** *string* **interface** *interface-name* **network-domains**
Description	Enter the network-domain context
Max. Elements	5
Introduced	16.0.R4

[domain-name] *string*

Context	**configure router** *string* **interface** *interface-name* **network-domains network-domain** *string*
Description	Specifies the network-domain name.
Reference	configure **router** *string* **network-domains network-domain** *string*
Introduced	16.0.R4
Notes	This element is part of a list key

port (*string* | *keyword*)

Context	**configure router** *string* **interface** *interface-name*
Description	Port to bind this interface
Introduced	16.0.R1
Notes	This element is part of a choice

ptp-hw-assist

Context **configure router** *string* **interface** *interface-name*

Description Enter the ptp-hw-assist context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **interface** *interface-name* **ptp-hw-assist**

Description Administrative state of the port-based timestamping assist function for the interface

Default disable

Options enable, disable

Introduced 16.0.R1

qos

Context **configure router** *string* **interface** *interface-name*

Description Enter the qos context

Introduced 16.0.R1

egress-instance *number*

Context **configure router** *string* **interface** *interface-name* **qos**

Description Instance of the port egress queue group for this interface

Range 1 to 65535

Introduced 16.0.R1

egress-port-redirect-group *string*

Context **configure router** *string* **interface** *interface-name* **qos**

Description QoS queue group name

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R1

ingress-fp-redirect-group *string*

Context	**configure router** *string* **interface** *interface-name* **qos**
Description	Forwarding-plane queue group policy for this interface
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1

ingress-instance *number*

Context	**configure router** *string* **interface** *interface-name* **qos**
Description	Instance of the forwarding-plane ingress queue group for this interface
Range	1 to 65535
Introduced	16.0.R1

network-policy *string*

Context	**configure router** *string* **interface** *interface-name* **qos**
Description	Pre-existing network policy ID associated with a network interface
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

strip-label *boolean*

Context	**configure router** *string* **interface** *interface-name*
Description	Strip all MPLS labels before packets are handed over for possible filter (PBR) processing
Default	false
Introduced	16.0.R1

tos-marking-state *keyword*

Context	**configure router** *string* **interface** *interface-name*
Description	TOS marking state
Default	trusted
Options	trusted, untrusted
Introduced	16.0.R1

untrusted

Context **configure router** *string* **interface** *interface-name*

Description Enter the untrusted context

Introduced 16.0.R4

default-forwarding *keyword*

Context **configure router** *string* **interface** *interface-name* **untrusted**

Description Configure the default action for Selective ILM (Incoming Label Map).

Default forward

Options forward, drop

Introduced 16.0.R4

urpf-selected-vprns *boolean*

Context **configure router** *string* **interface** *interface-name*

Description Enable/disable per-VPRN selective URPF treatment. This applies to packets associated with a VPRN.

Default false

Introduced 16.0.R1

vas-if-type *keyword*

Context **configure router** *string* **interface** *interface-name*

Description VAS interface type

Options to-from-access, to-from-network, to-from-both

Introduced 16.0.R1

ipv6

Context **configure router** *string*

Description Enter the ipv6 context

Introduced 16.0.R1

neighbor-discovery

Context **configure router** *string* **ipv6**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

reachable-time *number*

Context **configure router** *string* **ipv6 neighbor-discovery**

Description Timer for neighbor reachability detection

Range 30 to 3600

Default 30

Introduced 16.0.R1

stale-time *number*

Context **configure router** *string* **ipv6 neighbor-discovery**

Description Time during which a neighbor discovery cache entry remains stale before removal

Range 60 to 65535

Default 14400

Introduced 16.0.R1

router-advertisement

Context **configure router** *string* **ipv6**

Description Enter the router-advertisement context

Introduced 16.0.R1

dns-options

Context **configure router** *string* **ipv6 router-advertisement**

Description Enter the dns-options context

Introduced 16.0.R1

rdnss-lifetime (*keyword* | *number*)

Context	**configure router** *string* **ipv6 router-advertisement dns-options**
Description	Maximum time over which the RDNSS address is valid
Range	0 | 4 to 3600
Default	infinite
Units	seconds
Options	infinite
Introduced	16.0.R1

server *ipv6-address*

Context	**configure router** *string* **ipv6 router-advertisement dns-options**
Description	Router advertisements that are forwarded to servers
Max. Elements	4
Introduced	16.0.R1
Notes	This element is ordered by user

interface [ip-int-name] *interface-name*

Context	**configure router** *string* **ipv6 router-advertisement**
Description	Enter the interface context
Introduced	16.0.R1

[ip-int-name] *interface-name*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Administrative state of router advertisement on an interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

current-hop-limit *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Hop limit to advertise in ICMPv6 ND router advertisement messages
Range	0 to 255
Default	64
Introduced	16.0.R1

dns-options

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Enter the dns-options context
Introduced	16.0.R1

include-rdnss *boolean*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **dns-options**
Description	Include the RDNSS option in the router advertisement sent from this interface
Default	true
Introduced	16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **dns-options**
Description	Maximum time over which the RDNSS address 25 is valid
Range	0 | 4 to 3600
Units	seconds
Options	infinite
Introduced	16.0.R1

server *ipv6-address*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **dns-options**
Description	Router advertisements that are forwarded to servers
Max. Elements	4
Introduced	16.0.R1
Notes	This element is ordered by user

managed-configuration *boolean*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Managed address configuration flag in ICMPv6 ND router advertisement messages
Default	false
Introduced	16.0.R1

max-advertisement-interval *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Maximum time between sending ICMPv6 ND router advertisement messages
Range	4 to 1800
Default	600
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Minimum time between sending ICMPv6 ND router advertisement messages
Range	3 to 1350
Default	200
Units	seconds
Introduced	16.0.R1

mtu *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	MTU for sending packets to the router
Range	1280 to 9212
Introduced	16.0.R1

other-stateful-configuration *boolean*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Other configuration flag to assign in ICMPv6 ND router advertisement messages
Default	false
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Enter the prefix context
Max. Elements	254
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **prefix** *ipv6-prefix*
Description	IPv6 address prefix
Introduced	16.0.R1
Notes	This element is part of a list key

autonomous *boolean*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **prefix** *ipv6-prefix*
Description	Autonomous flag value
Default	true
Introduced	16.0.R1

on-link *boolean*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **prefix** *ipv6-prefix*
Description	Use prefix for onlink determination
Default	true
Introduced	16.0.R1

preferred-lifetime (*keyword* | *number*)

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **prefix** *ipv6-prefix*
Description	Remaining time that the prefix remains preferred
Range	0 to 4294967294
Default	604800
Units	seconds
Options	infinite
Introduced	16.0.R1

valid-lifetime (*keyword* | *number*)

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name* **prefix** *ipv6-prefix*
Description	Remaining time during which the prefix continues to be valid
Range	0 to 4294967294
Default	2592000
Units	seconds
Options	infinite
Introduced	16.0.R1

reachable-time *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Time during which this router is considered reachable by other hosts or nodes on the subnet
Range	0 to 3600000
Default	0
Units	milliseconds
Introduced	16.0.R1

retransmit-time *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Interval to advertise in ICMPv6 ND router advertisement messages
Range	0 to 1800000
Default	0
Units	milliseconds
Introduced	16.0.R1

router-lifetime *number*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Lifetime value that the router advertises in ICMPv6 ND router advertisement messages
Range	0 | 4 to 9000
Default	1800
Units	seconds
Introduced	16.0.R1

use-virtual-mac *boolean*

Context	**configure router** *string* **ipv6 router-advertisement interface** *interface-name*
Description	Router advertisement messages to send using VRRP virtual MAC address
Default	false
Introduced	16.0.R1

isa-service-chaining

Context	**configure router** *string*
Description	Enter the isa-service-chaining context
Introduced	16.0.R1

nat-group [id] *number*

Context	**configure router** *string* **isa-service-chaining**
Description	Enter the nat-group context
Introduced	16.0.R1

[id] *number*

Context	**configure router** *string* **isa-service-chaining nat-group** *number*
Description	ISA NAT group or ISA WLAN GW group used for the pools in EVPNs
Introduced	16.0.R4
Notes	This element is part of a list key

vxlan-vtep-range

Context	**configure router** *string* **isa-service-chaining**
Description	Enter the vxlan-vtep-range context
Introduced	16.0.R1

end (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **isa-service-chaining vxlan-vtep-range**
Description	End of the VXLAN VTEP range
Introduced	16.0.R1
Notes	This element is mandatory

start (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **isa-service-chaining vxlan-vtep-range**
Description	Start of the VXLAN VTEP range
Introduced	16.0.R1
Notes	This element is mandatory

isis [isis-instance] *number*

Context	**configure router** *string*
Description	Enter the isis context
Introduced	16.0.R1

[isis-instance] *number*

Context	**configure router** *string* **isis** *number*
Description	Instance ID for IS-IS instance
Range	0 to 31
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **isis** *number*
Description	Administrative state of IS-IS instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

advertise-passive-only *boolean*

Context	**configure router** *string* **isis** *number*
Description	Advertise only prefixes that belong to passive interfaces
Default	false
Introduced	16.0.R1

advertise-router-capability *keyword*

Context	**configure router** *string* **isis** *number*
Description	Advertise router capabilities to neighbors for information and troubleshooting purposes
Options	area, as
Introduced	16.0.R1

advertise-tunnel-link *boolean*

Context	**configure router** *string* **isis** *number*
Description	Allow use of forwarding adjacency
Default	false
Introduced	16.0.R1

all-l1isis *mac-address*

Context	**configure router** *string* **isis** *number*
Description	Destination MAC address for all L1 ISIS neighbors on the link for this ISIS instance
Default	01:80:C2:00:00:14
Introduced	16.0.R1

all-l2isis *mac-address*

Context	**configure router** *string* **isis** *number*
Description	Destination MAC address for all L1 ISIS routers
Default	01:80:C2:00:00:15
Introduced	16.0.R1

area-address *area-address*

Context	**configure router** *string* **isis** *number*
Description	Area address portion of NSAP address
String Length	2 to 38
Max. Elements	3
Introduced	16.0.R1

authentication-check *boolean*

Context	**configure router** *string* **isis** *number*
Description	Perform authentication check to reject PDUs that do not match the type or key requirements
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **isis** *number*
Description	Authentication key to verify PDUs sent by neighboring routers
String Length	1 to 366
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure router** *string* **isis** *number*
Description	The keychain used to sign and/or authenticate.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

authentication-type *keyword*

Context	**configure router** *string* **isis** *number*
Description	Authentication type
Options	password, message-digest
Introduced	16.0.R1

csnp-authentication *boolean*

Context	**configure router** *string* **isis** *number*
Description	Authenticate individual IS-IS protocol packets of complete sequence number PDU (CSNP) type
Default	true
Introduced	16.0.R1

database-export

Context	**configure router** *string* **isis** *number*
Description	Enter the database-export context
Introduced	16.0.R1

bgp-ls-identifier

Context	**configure router** *string* **isis** *number* **database-export**
Description	Enter the bgp-ls-identifier context
Introduced	16.0.R1

value *number*

Context **configure router** *string* **isis** *number* **database-export bgp-ls-identifier**
Description BGP-LS identifier that is sent in the BGP-LS NLRI
Default 0
Introduced 16.0.R1

igp-identifier *number*

Context **configure router** *string* **isis** *number* **database-export**
Description Unique identifier of the IGP instance in the BGP-LS NLRI
Introduced 16.0.R1

default-route-tag *number*

Context **configure router** *string* **isis** *number*
Description Route tag for default route
Range 1 to max
Introduced 16.0.R1

entropy-label

Context **configure router** *string* **isis** *number*
Description Enter the entropy-label context
Introduced 16.0.R1

override-tunnel-elc *boolean*

Context **configure router** *string* **isis** *number* **entropy-label**
Description Received entropy label capability advertisement to override
Default false
Introduced 16.0.R1

export-limit

Context **configure router** *string* **isis** *number*
Description Enter the export-limit context
Introduced 16.0.R1

log-percent *number*

Context	**configure router** *string* **isis** *number* **export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **isis** *number* **export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

export-policy *string*

Context	**configure router** *string* **isis** *number*
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

graceful-restart

Context	**configure router** *string* **isis** *number*
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure router** *string* **isis** *number* **graceful-restart**
Description	Enable graceful restart helper for IS-IS
Default	true
Introduced	16.0.R1

hello-authentication *boolean*

Context	**configure router** *string* **isis** *number*
Description	Authenticate individual IS-IS protocol packets of Hello type
Default	true
Introduced	16.0.R1

hello-padding *keyword*

Context	**configure router** *string* **isis** *number*
Description	Padding on IS-IS Hello packets
Options	adaptive, loose, strict, none
Introduced	16.0.R1

ignore-attached-bit *boolean*

Context	**configure router** *string* **isis** *number*
Description	Ignore attached bit on received L1 LSPs to disable installation of default routes
Default	false
Introduced	16.0.R1

ignore-lsp-errors *boolean*

Context	**configure router** *string* **isis** *number*
Description	Ignore LSP packets with errors
Default	false
Introduced	16.0.R1

ignore-narrow-metric *boolean*

Context	**configure router** *string* **isis** *number*
Description	Ignore links with narrow metrics when wide-metrics support is enabled
Default	false
Introduced	16.0.R1

igp-shortcut

Context **configure router** *string* **isis** *number*

Description Enter the igp-shortcut context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **isis** *number* **igp-shortcut**

Description Administrative state of RSVP-TE or SR-TE shortcut

Default disable

Options enable, disable

Introduced 16.0.R1

tunnel-next-hop

Context **configure router** *string* **isis** *number* **igp-shortcut**

Description Enter the tunnel-next-hop context

Introduced 16.0.R1

family [family-type] *keyword*

Context **configure router** *string* **isis** *number* **igp-shortcut tunnel-next-hop**

Description Enter the family context

Introduced 16.0.R1

[family-type] *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure router** *string* **isis** *number* **igp-shortcut tunnel-next-hop family** *keyword*

Description Address family type for tunnel next-hop

Options ipv4, ipv6, srv4, srv6

Introduced 16.0.R1

Notes This element is part of a list key

resolution *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **isis** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Resolution state for IGP shortcut tunnels
Options	none, filter, any, match-family-ip
Introduced	16.0.R1

resolution-filter

Context	**configure router** *string* **isis** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Enter the resolution-filter context
Introduced	16.0.R1

rsvp *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **isis** *number* **igp-shortcut tunnel-next-hop family** *keyword* **resolution-filter**
Description	Use RSVP tunneling for next-hop resolution
Default	false
Introduced	16.0.R1

sr-te *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **isis** *number* **igp-shortcut tunnel-next-hop family** *keyword* **resolution-filter**
Description	Use SR-TE tunneling for next-hop resolution
Default	false
Introduced	16.0.R1

iid-tlv *boolean*

Context	**configure router** *string* **isis** *number*
Description	Use IID TLVs with IS-IS multi-instance (MI)
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **isis** *number*
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure router** *string* **isis** *number*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

adjacency-set [id] *string*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the adjacency-set context
Introduced	16.0.R1

[id] *string*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **adjacency-set** *string*
Description	Adjacency set identity
Reference	configure **router** *string* **isis** *number* **segment-routing adjacency-set** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Administrative state of interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **bfd-liveness**
Description	Enter the ipv4 context
Introduced	16.0.R1

include-bfd-tlv *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **bfd-liveness ipv4**
Description	BFD-enabled TLV for IPv4 to include on this IS-IS interface
Default	false
Introduced	16.0.R1

ipv6

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **bfd-liveness**
Description	Enter the ipv6 context
Introduced	16.0.R1

include-bfd-tlv *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **bfd-liveness ipv6**
Description	BFD-enabled TLV for IPv4 to include on this IS-IS interface
Default	false
Introduced	16.0.R1

csnp-interval *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Time interval between successive CSN PDUs sent from interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

default-instance *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Allow non-MI capable router to establish an adjacency and operate with a router in non-zero instance
Default	false
Introduced	16.0.R1

hello-authentication *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Authenticate individual IS-IS protocol packets of Hello type
Default	true
Introduced	16.0.R1

hello-authentication-key *encrypted-leaf*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Authentication key or hash string for Hello PDUs
String Length	1 to 366
Introduced	16.0.R1

hello-authentication-keychain *string*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Authentication keychain to use for the session.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

hello-authentication-type *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Hello authentication type
Options	password, message-digest
Introduced	16.0.R1

hello-padding *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Padding on IS-IS Hello packets
Options	adaptive, loose, strict, none
Introduced	16.0.R1

interface-type *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Interface type to broadcast, point-to-point, or to be default
Options	point-to-point, broadcast
Introduced	16.0.R1

ipv4-adjacency-sid

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the ipv4-adjacency-sid context
Introduced	16.0.R1

label *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv4-adjacency-sid**
Description	Adjacency SID
Range	1 to 1048575
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-multicast *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Clear IPv4 multicast routing for interface
Default	true
Introduced	16.0.R1

ipv4-node-sid

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the ipv4-node-sid context
Introduced	16.0.R1

clear-n-flag *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv4-node-sid**
Description	Clear the node-sid flag (N-flag)
Default	false
Introduced	16.0.R1

index *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv4-node-sid**
Description	IPvX node SID index for this interface
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

label *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv4-node-sid**
Description	Specifies IPvX node SID label for this interface.
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-adjacency-sid

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the ipv6-adjacency-sid context
Introduced	16.0.R1

label *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv6-adjacency-sid**
Description	Adjacency SID
Range	1 to 1048575
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-multicast *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Clear IPv4 multicast routing for interface
Default	true
Introduced	16.0.R1

ipv6-node-sid

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the ipv6-node-sid context
Introduced	16.0.R1

clear-n-flag *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv6-node-sid**
Description	Clear the node-sid flag (N-flag)
Default	false
Introduced	16.0.R1

index *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv6-node-sid**
Description	IPvX node SID index for this interface
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

label *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **ipv6-node-sid**
Description	Specifies IPvX node SID label for this interface.
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-unicast *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Clear IPv4 multicast routing for interface
Default	true
Introduced	16.0.R1

level [level-number] *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the level context
Max. Elements	2
Introduced	16.0.R1

[level-number] *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	IS-IS protocol level to which these attributes apply
Options	1, 2
Introduced	16.0.R1
Notes	This element is part of a list key

hello-authentication-key *encrypted-leaf*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Authentication or hash key string.
String Length	1 to 366
Introduced	16.0.R4

hello-authentication-keychain *string*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Authentication keychain to use for the session.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R4

hello-authentication-type *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Hello-authentication-type to be enabled.
Options	password, message-digest
Introduced	16.0.R4

hello-interval *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Interval between Hello messages sent on this level
Range	1 to 20000
Default	9
Introduced	16.0.R1

hello-multiplier *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Hello messages missed from neighbor before router declares adjacency down
Range	2 to 100
Default	3
Introduced	16.0.R1

hello-padding *keyword*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Padding on IS-IS Hello packets
Options	adaptive, loose, strict, none
Introduced	16.0.R1

ipv4-multicast-metric *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	IS-IS interface metric applied for IPv4 multicast
Range	1 to 16777215
Introduced	16.0.R1

ipv6-multicast-metric *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	IS-IS interface metric applied for IPv6 multicast
Range	1 to 16777215
Introduced	16.0.R1

ipv6-unicast-metric *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	IS-IS interface metric applied for for IPv6 unicast
Range	1 to 16777215
Introduced	16.0.R1

metric *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	IS-IS interface metric applied for for IPv4 unicast
Range	1 to 16777215
Introduced	16.0.R1

passive *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Passive interface
Default	false
Introduced	16.0.R1

priority *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Router to become the designated router on a multi-access network
Range	0 to 127
Default	64
Introduced	16.0.R1

sd-offset *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Value of the signal degrade offset
Range	1 to 16777215
Introduced	16.0.R1

sf-offset *number*

Context **configure router** *string* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Value of the signal fail offset

Range 1 to 16777215

Introduced 16.0.R1

level-capability *keyword*

Context **configure router** *string* **isis** *number* **interface** *interface-name*

Description IS-IS levels for this interface

Options 1, 2, 1/2

Introduced 16.0.R1

load-balancing-weight *number*

Context **configure router** *string* **isis** *number* **interface** *interface-name*

Description Load balancing weight

Introduced 16.0.R1

loopfree-alternate

Context **configure router** *string* **isis** *number* **interface** *interface-name*

Description Enter the loopfree-alternate context

Introduced 16.0.R3

exclude *boolean*

Context **configure router** *string* **isis** *number* **interface** *interface-name* **loopfree-alternate**

Description Enable/disable Loopfree Alternative at interface level.

Default false

Introduced 16.0.R3

policy-map

Context **configure router** *string* **isis** *number* **interface** *interface-name* **loopfree-alternate**

Description Enter the policy-map context

Introduced 16.0.R1

route-nh-template *string*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **loopfree-alternate policy-map**
Description	Route next hop policy template that is applied to interface
Reference	configure **routing-options route-next-hop-policy template** *string*
Introduced	16.0.R3
Notes	This element is mandatory

lsp-pacing-interval *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Interval for sending LSPs from interface
Range	0 to 65535
Default	100
Introduced	16.0.R1

mesh-group

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Enter the mesh-group context
Introduced	16.0.R1

blocked

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **mesh-group**
Description	Prevent the interface from flooding LSPs
Introduced	16.0.R1
Notes	This element is part of a choice

value *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name* **mesh-group**
Description	Mesh group for the interface
Range	1 to 2000000000
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Passive interface
Default	false
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Minimum time between LSP PDU retransmissions on point-to-point interface
Range	1 to 65535
Default	5
Units	seconds
Introduced	16.0.R1

sid-protection *boolean*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Allow adjacency SID protection by LFA and remote LFA
Default	true
Introduced	16.0.R1

tag *number*

Context	**configure router** *string* **isis** *number* **interface** *interface-name*
Description	Route tag for IP address of interface
Range	1 to max
Introduced	16.0.R1

ipv4-multicast-routing *keyword*

Context	**configure router** *string* **isis** *number*
Description	IS-IS topology for IPv4 multicast routing
Default	native
Options	false, native, mt
Introduced	16.0.R1

ipv4-routing *boolean*

Context	**configure router** *string* **isis** *number*
Description	Support IPv4 routing for IS-IS instance
Default	true
Introduced	16.0.R1

ipv6-multicast-routing *keyword*

Context	**configure router** *string* **isis** *number*
Description	Topology to populate the IPv6 multicast RTM
Options	false, native, mt
Introduced	16.0.R1

ipv6-routing *keyword*

Context	**configure router** *string* **isis** *number*
Description	Routing topology for IPv6
Default	false
Options	false, native, mt
Introduced	16.0.R1

ldp-over-rsvp *boolean*

Context	**configure router** *string* **isis** *number*
Description	Allow LDP over RSVP processing
Default	false
Introduced	16.0.R1

ldp-sync *boolean*

Context	**configure router** *string* **isis** *number*
Description	Use IGP-LDP synchronization feature on all interfaces participating in IS-IS routing protocol
Default	true
Introduced	16.0.R1

level [level-number] *keyword*

Context	**configure router** *string* **isis** *number*
Description	Enter the level context
Max. Elements	2
Introduced	16.0.R1

[level-number] *keyword*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	IS-IS protocol level to which these attributes apply
Options	1, 2
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-router-capability *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Authentication or hash key string.
String Length	1 to 366
Introduced	16.0.R4

authentication-keychain *string*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	The keychain used to sign and/or authenticate.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Configure the authentication type to be used.
Options	password, message-digest
Introduced	16.0.R4

bier

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Enter the bier context
Introduced	16.0.R5

admin-state *keyword*

Context	**configure router** *string* **isis** *number* **level** *keyword* **bier**
Description	Administratively enable/disable BIER.
Default	disable
Options	enable, disable
Introduced	16.0.R5

template *string*

Context	**configure router** *string* **isis** *number* **level** *keyword* **bier**
Description	Specify BIER template name.
String Length	1 to 32
Introduced	16.0.R5

csnp-authentication *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Enable/disable authentication on received ISIS protocol packets of type CSNP.
Default	true
Introduced	16.0.R4

database-export-exclude *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Exclude IGP link-state information of a specific IS-IS level from being exported into extended TE-DB
Default	false
Introduced	16.0.R1

default-ipv4-multicast-metric *number*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Default metric for IPv4 unicast
Range	1 to 16777215
Default	10
Introduced	16.0.R1

default-ipv6-multicast-metric *number*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Default metric for IPv6 unicast
Range	1 to 16777215
Default	10
Introduced	16.0.R1

default-ipv6-unicast-metric *number*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Default metric for IPv6 unicast
Range	1 to 16777215
Default	10
Introduced	16.0.R1

default-metric *number*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Default metric
Range	1 to 16777215
Default	10
Introduced	16.0.R1

external-preference *number*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	External route preference for IS-IS level
Range	1 to 255
Introduced	16.0.R1

hello-authentication *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Authenticate individual IS-IS protocol packets of Hello type
Default	true
Introduced	16.0.R1

hello-padding *keyword*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Padding on IS-IS Hello packets
Options	adaptive, loose, strict, none
Introduced	16.0.R1

loopfree-alternate-exclude *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Exclude interface participating in specific IS-IS level in SPF LFA computation
Default	false
Introduced	16.0.R1

lsp-mtu-size *number*



Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	LSP MTU size
Range	490 to 9190
Default	1492
Units	bytes
Introduced	16.0.R1

preference *number*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	External route preference at level
Range	1 to 255
Introduced	16.0.R1

psnp-authentication *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Enable/disable authentication on received ISIS protocol packets of type PSNP.
Default	true
Introduced	16.0.R4

wide-metrics-only *boolean*

Context	**configure router** *string* **isis** *number* **level** *keyword*
Description	Use wide metrics advertisements in the LSPs
Default	false
Introduced	16.0.R1

level-capability *keyword*

Context	**configure router** *string* **isis** *number*
Description	Routing level for instance
Options	1, 2, 1/2
Introduced	16.0.R1

link-group [link-group-name] *string*

Context	**configure router** *string* **isis** *number*
Description	Enter the link-group context
Introduced	16.0.R1

[link-group-name] *string*

Context	**configure router** *string* **isis** *number* **link-group** *string*
Description	Link group name for the IS-IS protocol
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *very-long-description*

Context	**configure router** *string* **isis** *number* **link-group** *string*
Description	Text description
String Length	1 to 255
Introduced	16.0.R1

level [level-number] *keyword*

Context	**configure router** *string* **isis** *number* **link-group** *string*
Description	Enter the level context
Max. Elements	2
Introduced	16.0.R1

[level-number] *keyword*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	IS-IS protocol level to which these attributes apply
Options	1, 2
Introduced	16.0.R1
Notes	This element is part of a list key

ipv4-multicast-metric-offset *number*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv4 multicast address family
Range	1 to 16777215
Introduced	16.0.R1

ipv4-unicast-metric-offset *number*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv4 unicast address family
Range	1 to 16777215
Introduced	16.0.R1

ipv6-multicast-metric-offset *number*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv6 multicast address family
Range	1 to 16777215
Introduced	16.0.R1

ipv6-unicast-metric-offset *number*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv6 unicast address family
Range	1 to 16777215
Introduced	16.0.R1

member [interface-name] *string*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Enter the member context
Max. Elements	8
Introduced	16.0.R1

[interface-name] *string*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword* **member** *string*
Description	Router interface name for this link group
Reference	configure **router** *string* **isis** *number* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

oper-members *number*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Minimum number of operational links
Range	1 to 8
Introduced	16.0.R1

revert-members *number*

Context	**configure router** *string* **isis** *number* **link-group** *string* **level** *keyword*
Description	Minimum number of operational links to return link group to normal state and remove offsets
Range	1 to 8
Introduced	16.0.R1

loopfree-alternate

Context	**configure router** *string* **isis** *number*
Description	Enter the loopfree-alternate context
Introduced	16.0.R1

exclude

Context	**configure router** *string* **isis** *number* **loopfree-alternate**
Description	Enter the exclude context
Introduced	16.0.R3

prefix-policy *string*

Context	**configure router** *string* **isis** *number* **loopfree-alternate exclude**
Description	Loopfree Alternative (LFA) exclude policies from which prefixes are excluded. Prefixes excluded from LFA this way will not be used in the LFA calculation, regardless of their priority.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is ordered by user

remote-lfa

Context	**configure router** *string* **isis** *number* **loopfree-alternate**
Description	Enter the remote-lfa context
Introduced	16.0.R1

max-pq-cost *number*

Context	**configure router** *string* **isis** *number* **loopfree-alternate remote-lfa**
Description	Maximum cost of destination node during reverse SPF calculation
Default	4261412864
Introduced	16.0.R1

node-protect

Context	**configure router** *string* **isis** *number* **loopfree-alternate remote-lfa**
Description	Enter the node-protect context
Introduced	16.0.R4

max-pq-nodes *number*

Context	**configure router** *string* **isis** *number* **loopfree-alternate remote-lfa node-protect**
Description	Specifies the maximum number of PQ nodes.
Range	1 to 32
Default	16
Introduced	16.0.R4

ti-lfa

Context	**configure router** *string* **isis** *number* **loopfree-alternate**
Description	Enter the ti-lfa context
Introduced	16.0.R1

max-sr-frr-labels *number*

Context	**configure router** *string* **isis** *number* **loopfree-alternate ti-lfa**
Description	Maximum number of labels that TI-LFA backup next hop can use
Range	0 to 3
Default	2
Introduced	16.0.R1

node-protect

Context	**configure router** *string* **isis** *number* **loopfree-alternate ti-lfa**
Description	Enter the node-protect context
Introduced	16.0.R1

lsp-lifetime *number*



Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure router** *string* **isis** *number*
Description	Amount of time during which an LSP is considered valid
Range	350 to 65535
Default	1200
Units	seconds
Introduced	16.0.R1

lsp-mtu-size *number*



Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure router** *string* **isis** *number*
Description	LSP MTU size
Range	490 to 9190
Default	1492
Units	bytes
Introduced	16.0.R1

lsp-refresh

Context	**configure router** *string* **isis** *number*
Description	Enter the lsp-refresh context
Introduced	16.0.R1

half-lifetime *boolean*

Context	**configure router** *string* **isis** *number* **lsp-refresh**
Description	Set the refresh interval to always be half the LSP lifetime
Default	true
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **isis** *number* **lsp-refresh**
Description	Refresh timer interval
Range	150 to 65535
Default	600
Units	seconds
Introduced	16.0.R1

multi-topology

Context	**configure router** *string* **isis** *number*
Description	Enter the multi-topology context
Introduced	16.0.R1

ipv4-multicast *boolean*

Context	**configure router** *string* **isis** *number* **multi-topology**
Description	Support IPv4 topology (MT3)
Default	false
Introduced	16.0.R1

ipv6-multicast *boolean*

Context	**configure router** *string* **isis** *number* **multi-topology**
Description	Support IPv6 topology (MT4)
Default	false
Introduced	16.0.R1

ipv6-unicast *boolean*

Context	**configure router** *string* **isis** *number* **multi-topology**
Description	Support multi-topology TLVs
Default	false
Introduced	16.0.R1

multicast-import

Context	**configure router** *string* **isis** *number*
Description	Enter the multicast-import context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **isis** *number* **multicast-import**
Description	Submit IPv4 routes into the multicast RPF of the RTM
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **isis** *number* **multicast-import**
Description	Submit IPv6 routes into the multicast RPF of the RTM
Default	false
Introduced	16.0.R1

overload

Context	**configure router** *string* **isis** *number*
Description	Enter the overload context
Introduced	16.0.R1

max-metric *boolean*

Context	**configure router** *string* **isis** *number* **overload**
Description	Advertise transit links with maximum metric instead of setting overload bit
Default	false
Introduced	16.0.R1

overload-export-external *boolean*

Context	**configure router** *string* **isis** *number*
Description	Advertise the external routes when router is in overloaded
Default	false
Introduced	16.0.R1

overload-export-interlevel *boolean*

Context	**configure router** *string* **isis** *number*
Description	Advertise the inter-level routes when router is overloaded
Default	false
Introduced	16.0.R1

overload-on-boot

Context	**configure router** *string* **isis** *number*
Description	Enter the overload-on-boot context
Introduced	16.0.R1

max-metric *boolean*

Context	**configure router** *string* **isis** *number* **overload-on-boot**
Description	Advertise transit links with maximum metric instead of setting overload bit
Default	false
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **isis** *number* **overload-on-boot**
Description	Time during which the router operates in overload state after reboot
Range	60 to 1800
Units	seconds
Introduced	16.0.R1

poi-tlv *boolean*

Context	**configure router** *string* **isis** *number*
Description	Purge Originator Identification TLV
Default	false
Introduced	16.0.R1

prefix-attributes-tlv *boolean*

Context	**configure router** *string* **isis** *number*
Description	Use IS-IS Prefix Attributes TLV to exchange extended IPv4 and IPv6 reachability information
Default	false
Introduced	16.0.R1

prefix-limit

Context	**configure router** *string* **isis** *number*
Description	Enter the prefix-limit context
Introduced	16.0.R1

limit *number*

Context	**configure router** *string* **isis** *number* **prefix-limit**
Description	Maximum number of prefixes for IS-IS instance
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

log-only *boolean*

Context	**configure router** *string* **isis** *number* **prefix-limit**
Description	Send warning message at specified threshold or when limit is reached, without going into overload
Default	false
Introduced	16.0.R1

overload-timeout (*number* | *keyword*)

Context	**configure router** *string* **isis** *number* **prefix-limit**
Description	Time router remains in overload after prefix limit is exceeded before restarting
Default	forever
Introduced	16.0.R1

warning-threshold *number*

Context	**configure router** *string* **isis** *number* **prefix-limit**
Description	Specifies the percentage of the value defined by prefix-limit, at which a warning log message and SNMP notification would be sent. This would only be a warning and additional prefixes will be learned up to 100% of prefix-limit. A value of 0 indicates that the threshold is disabled and no log message or SNMP notification will be sent.
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R1

psnp-authentication *boolean*

Context	**configure router** *string* **isis** *number*
Description	Authenticate individual IS-IS protocol packets of partial sequence number PDU (PSNP) type
Default	true
Introduced	16.0.R1

reference-bandwidth *number*

Context	**configure router** *string* **isis** *number*
Description	Reference bandwidth for bandwidth relative costing
Range	1 to 4000000000
Units	kilobps
Introduced	16.0.R1

rib-priority

Context	**configure router** *string* **isis** *number*
Description	Enter the rib-priority context
Introduced	16.0.R1

high

Context	**configure router** *string* **isis** *number* **rib-priority**
Description	Enter the high context
Introduced	16.0.R1

prefix-list *string*

Context	**configure router** *string* **isis** *number* **rib-priority high**
Description	List used to select routes processed at higher priority through OSPF route calculation process
Reference	configure **policy-options prefix-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

tag *number*

Context	**configure router** *string* **isis** *number* **rib-priority high**
Description	Value that matches IS-IS routes processed at higher priority through route calculation process
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

router-id *router-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **isis** *number*
Description	Unique router ID for ISIS instance
Introduced	16.0.R1

segment-routing

Context	**configure router** *string* **isis** *number*
Description	Enter the segment-routing context
Introduced	16.0.R1

adj-sid-hold (*number* | *keyword*)

Context **configure router** *string* **isis** *number* **segment-routing**
Description Adjacency SID hold time
Default 15
Units seconds
Introduced 16.0.R1

adjacency-set [id] *number*

Context **configure router** *string* **isis** *number* **segment-routing**
Description Enter the adjacency-set context
Introduced 16.0.R1

[id] *number*

Context **configure router** *string* **isis** *number* **segment-routing adjacency-set** *number*
Description Identifier for specified adjacency set
Range 1 to max
Introduced 16.0.R1
Notes This element is part of a list key

advertise *boolean*

Context **configure router** *string* **isis** *number* **segment-routing adjacency-set** *number*
Description Advertise the adjacency set when all links terminate on the same neighboring node
Default true
Introduced 16.0.R1

family *keyword*

Context **configure router** *string* **isis** *number* **segment-routing adjacency-set** *number*
Description Address family for the adjacency set
Default ipv4
Options ipv4, ipv6
Introduced 16.0.R1

parallel *boolean*

Context	**configure router** *string* **isis** *number* **segment-routing adjacency-set** *number*
Description	Require all members of the adjacency set to terminate on the same neighboring node
Default	true
Introduced	16.0.R1

sid

Context	**configure router** *string* **isis** *number* **segment-routing adjacency-set** *number*
Description	Enter the sid context
Introduced	16.0.R1

label *number*

Context	**configure router** *string* **isis** *number* **segment-routing adjacency-set** *number* **sid**
Description	Adjacency SID
Range	1 to 1048575
Introduced	16.0.R1
Notes	This element is part of a choice

admin-state *keyword*

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Administrative state of segment routing
Default	disable
Options	enable, disable
Introduced	16.0.R1

entropy-label *boolean*

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Entropy label capability
Default	true
Introduced	16.0.R1

export-tunnel-table *keyword*

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Tunnel table export policies to export tunneled routes
Options	ldp
Introduced	16.0.R1

mapping-server

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Enter the mapping-server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server**
Description	Administrative state of ISIS segment routing mapping server
Default	disable
Options	enable, disable
Introduced	16.0.R1

node-sid-map [sid-index] *number*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server**
Description	Enter the node-sid-map context
Introduced	16.0.R1

[sid-index] *number*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number*
Description	SID index of a mapping server Prefix-SID
Introduced	16.0.R1
Notes	This element is part of a list key

clear-n-flag *boolean*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Clear the node-sid flag (N-flag)
Default	false
Introduced	16.0.R1

ip-prefix *ipv4-unicast-prefix*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Prefix of a mapping server Prefix-SID
Introduced	16.0.R1
Notes	This element is mandatory

level-capability *keyword*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Flags to assign in SID Label Binding TLV advertised by Segment Routing Mapping Server
Options	1, 2, 1/2
Introduced	16.0.R1

range *number*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Range of addresses and their associated prefix SIDs
Range	0 to 65535
Default	1
Introduced	16.0.R1

set-flags

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Enter the set-flags context
Introduced	16.0.R1

bit-s *boolean*

Context	**configure router** *string* **isis** *number* **segment-routing mapping-server node-sid-map** *number* **set-flags**
Description	SID Label Binding TLV to be flooded across the entire routing domain
Default	false
Introduced	16.0.R1

prefix-sid-range

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Enter the prefix-sid-range context
Introduced	16.0.R1

global

Context	**configure router** *string* **isis** *number* **segment-routing prefix-sid-range**
Description	Use global SR range
Introduced	16.0.R1
Notes	This element is part of a choice

max-index *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **isis** *number* **segment-routing prefix-sid-range**
Description	Maximum local SID index
Range	1 to 524287
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

start-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **isis** *number* **segment-routing prefix-sid-range**
Description	Value for the local label starting offset
Range	0 to 524287
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

srlb *string*

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Routing local block
Reference	configure **router** *string* **mpls-labels reserved-label-block** *string*
Introduced	16.0.R1

tunnel-mtu *number*

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Tunnel MTU size
Range	512 to 9198
Introduced	16.0.R1

tunnel-table-pref *number*

Context	**configure router** *string* **isis** *number* **segment-routing**
Description	Preference of SR tunnels created by the IGP instance
Range	1 to 255
Default	11
Introduced	16.0.R1

standard-multi-instance *boolean*

Context	**configure router** *string* **isis** *number*
Description	Enable RFC standards compliant multi-instance behavior
Default	false
Introduced	16.0.R1

strict-adjacency-check *boolean*

Context	**configure router** *string* **isis** *number*
Description	Enable strict checking of address families for IS-IS adjacencies
Default	false
Introduced	16.0.R1

summary-address [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **isis** *number*
Description	Enter the summary-address context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **isis** *number* **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
Description	Summary IP prefix
Introduced	16.0.R1
Notes	This element is part of a list key

level-capability *keyword*

Context	**configure router** *string* **isis** *number* **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
Description	IS-IS Level from which the prefix should be summarized
Options	1, 2, 1/2
Introduced	16.0.R1

route-tag *number*

Context	**configure router** *string* **isis** *number* **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
Description	Route tag assigned to the summary address
Range	1 to max
Introduced	16.0.R1

suppress-attached-bit *boolean*

Context	**configure router** *string* **isis** *number*
Description	Allow IS-IS to suppress setting the attached bit on LSPs
Default	false
Introduced	16.0.R1

system-id *system-id*



Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure router** *string* **isis** *number*
Description	System ID
String Length	14
Introduced	16.0.R1

timers

Context	**configure router** *string* **isis** *number*
Description	Enter the timers context
Introduced	16.0.R1

lsp-wait

Context	**configure router** *string* **isis** *number* **timers**
Description	Enter the lsp-wait context
Introduced	16.0.R1

lsp-initial-wait *number*

Context	**configure router** *string* **isis** *number* **timers lsp-wait**
Description	Initial LSP generation delay
Range	10 to 100000
Default	10
Units	milliseconds
Introduced	16.0.R1

lsp-max-wait *number*

Context	**configure router** *string* **isis** *number* **timers lsp-wait**
Description	Maximum time between two consecutive occurrences of LSP generation
Range	10 to 120000
Default	5000
Units	milliseconds
Introduced	16.0.R1

lsp-second-wait *number*

Context	**configure router** *string* **isis** *number* **timers lsp-wait**
Description	Delay between first and second LSP generation
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-wait

Context	**configure router** *string* **isis** *number* **timers**
Description	Enter the spf-wait context
Introduced	16.0.R1

spf-initial-wait *number*

Context	**configure router** *string* **isis** *number* **timers spf-wait**
Description	Initial SPF calculation delay after topology change
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-max-wait *number*

Context	**configure router** *string* **isis** *number* **timers spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	10 to 120000
Default	10000
Units	milliseconds
Introduced	16.0.R1

spf-second-wait *number*

Context	**configure router** *string* **isis** *number* **timers spf-wait**
Description	Hold time between first and second SPF calculations
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

traffic-engineering *boolean*

Context	**configure router** *string* **isis** *number*
Description	Traffic engineering for router
Default	false
Introduced	16.0.R1

unicast-import

Context	**configure router** *string* **isis** *number*
Description	Enter the unicast-import context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **isis** *number* **unicast-import**
Description	Submit IPv4 routes into unicast RTM
Default	true
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **isis** *number* **unicast-import**
Description	Submit IPv6 routes into unicast RTM
Default	true
Introduced	16.0.R1

l2tp

Context	**configure router** *string*
Description	Enter the l2tp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **l2tp**
Description	Administrative state of L2TP
Default	disable
Options	enable, disable
Introduced	16.0.R1

avp-hiding *keyword*

Context	**configure router** *string* **l2tp**
Description	Attribute of the Value Pair (AVP) hiding algorithm
Options	sensitive, always
Introduced	16.0.R1

challenge *boolean*

Context	**configure router** *string* **l2tp**
Description	Use challenge-response authentication
Default	false
Introduced	16.0.R1

destruct-timeout *number*

Context **configure router** *string* **l2tp**
Description Destruction timeout
Range 60 to 86400
Introduced 16.0.R1

ethernet-tunnel

Context **configure router** *string* **l2tp**
Description Enter the ethernet-tunnel context
Introduced 16.0.R4

reconnect-timeout (*number* | *keyword*)

Context **configure router** *string* **l2tp ethernet-tunnel**
Description Timeout for a session setup retry
Introduced 16.0.R4

exclude-avps

Context **configure router** *string* **l2tp**
Description Enter the exclude-avps context
Introduced 16.0.R1

calling-number *boolean*

Context **configure router** *string* **l2tp exclude-avps**
Description Calling Number AVP to exclude
Default false
Introduced 16.0.R1

initial-rx-lcp-conf-req *boolean*

Context **configure router** *string* **l2tp exclude-avps**
Description Initial Received LCP ConfReq AVP to exclude
Default false
Introduced 16.0.R1

failover

Context	**configure router** *string* **l2tp**
Description	Enter the failover context
Introduced	16.0.R1

recovery-max-session-lifetime *number*

Context	**configure router** *string* **l2tp failover**
Description	Subset of sessions that this system attempts to synchronize in the Session State Synchronization phase
Range	2 to 4294967295
Default	2
Units	centiseconds
Introduced	16.0.R1

recovery-method *keyword*

Context	**configure router** *string* **l2tp failover**
Description	Recovery method of the sequence numbers after failover
Options	mcs, recovery-tunnel
Introduced	16.0.R1

recovery-time *number*

Context	**configure router** *string* **l2tp failover**
Description	Time requested from the L2TP peer before assuming failover as failed
Range	0 to 900
Introduced	16.0.R1

track-srrp [id] *number*

Context	**configure router** *string* **l2tp failover**
Description	Enter the track-srrp context
Introduced	16.0.R1

[id] *number*

Context	**configure router** *string* **l2tp failover track-srrp** *number*
Description	SRRP instance ID that this interface route needs to track
Introduced	16.0.R1
Notes	This element is part of a list key

peer *string*

Context	**configure router** *string* **l2tp failover track-srrp** *number*
Description	Multi-chassis peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*

Context	**configure router** *string* **l2tp failover track-srrp** *number*
Description	Synchronization tag on the multi-chassis peer
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

group [tunnel-group-name] *string*

Context	**configure router** *string* **l2tp**
Description	Enter the group context
Introduced	16.0.R1

[tunnel-group-name] *string*

Context	**configure router** *string* **l2tp group** *string*
Description	Tunnel group name
String Length	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **l2tp group** *string*
Description	Administrative state of the L2TP tunnel group
Default	disable
Options	enable, disable
Introduced	16.0.R1

avp-hiding *keyword*

Context	**configure router** *string* **l2tp group** *string*
Description	The AVP hiding algorithm
Options	never, sensitive, always
Introduced	16.0.R4

challenge *keyword*

Context	**configure router** *string* **l2tp group** *string*
Description	Enable/disable the use of challenge-response authentication.
Options	false, true
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **l2tp group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destruct-timeout *number*

Context	**configure router** *string* **l2tp group** *string*
Description	Destruction timeout
Range	60 to 86400
Introduced	16.0.R1

ethernet-tunnel

Context **configure router** *string* **l2tp group** *string*

Description Enter the ethernet-tunnel context

Introduced 16.0.R4

reconnect-timeout (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **ethernet-tunnel**

Description Timeout for a session setup retry at group level

Introduced 16.0.R4

failover

Context **configure router** *string* **l2tp group** *string*

Description Enter the failover context

Introduced 16.0.R1

recovery-method *keyword*

Context **configure router** *string* **l2tp group** *string* **failover**

Description Recovery method of the sequence numbers after failover

Options mcs, recovery-tunnel

Introduced 16.0.R1

recovery-time *number*

Context **configure router** *string* **l2tp group** *string* **failover**

Description Time requested from the L2TP peer before assuming failover as failed

Range 0 to 900

Introduced 16.0.R1

hello-interval (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string*

Description Hello interval

Introduced 16.0.R1

idle-timeout (*number* | *keyword*)

Context	**configure router** *string* **l2tp group** *string*
Description	Idle timeout
Introduced	16.0.R1

l2tpv3

Context	**configure router** *string* **l2tp group** *string*
Description	Enter the l2tpv3 context
Introduced	16.0.R1

cookie-length (*number* | *keyword*)

Context	**configure router** *string* **l2tp group** *string* **l2tpv3**
Description	Cookie field length
Introduced	16.0.R1

digest-type *keyword*

Context	**configure router** *string* **l2tp group** *string* **l2tpv3**
Description	Hashing algorithm that calculates the message digest
Options	none, md5, sha1
Introduced	16.0.R1

nonce-length *number*

Context	**configure router** *string* **l2tp group** *string* **l2tpv3**
Description	Length for the local L2TPv3 nonce (random number)
Range	0 | 16 to 64
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure router** *string* **l2tp group** *string* **l2tpv3**
Description	L2TPv3 password
String Length	1 to 114
Introduced	16.0.R1

private-tcp-mss-adjust (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **l2tpv3**

Description TCP maximum segment size (MSS) on private network

Introduced 16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **l2tpv3**

Description TCP Maximum Segment Size (MSS) on public network

Introduced 16.0.R1

pw-cap-list

Context **configure router** *string* **l2tp group** *string* **l2tpv3**

Description Enter the pw-cap-list context

Introduced 16.0.R1

ethernet *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure router** *string* **l2tp group** *string* **l2tpv3 pw-cap-list**

Description Advertise Ethernet pseudowire type

Default false

Introduced 16.0.R1

ethernet-vlan *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure router** *string* **l2tp group** *string* **l2tpv3 pw-cap-list**

Description Advertise Ethernet VLAN pseudowire type

Default false

Introduced 16.0.R1

rem-router-id *ipv4-address*

Context	**configure router** *string* **l2tp group** *string* **l2tpv3**
Description	Filter on remote router ID
Default	0.0.0.0
Introduced	16.0.R1

track-password-change *boolean*

Context	**configure router** *string* **l2tp group** *string* **l2tpv3**
Description	Enable tracking of password changes
Default	false
Introduced	16.0.R1

lac

Context	**configure router** *string* **l2tp group** *string*
Description	Enter the lac context
Introduced	16.0.R1

df-bit *keyword*

Context	**configure router** *string* **l2tp group** *string* **lac**
Description	DF (do not fragment) bit in data traffic transmitted as LAC
Options	false, true
Introduced	16.0.R1

lns

Context	**configure router** *string* **l2tp group** *string*
Description	Enter the lns context
Introduced	16.0.R1

lns-group *string*

Context	**configure router** *string* **l2tp group** *string* **lns**
Description	ISA LNS group
Reference	configure **isa lns-group** *number*
Introduced	16.0.R1

load-balance-method *keyword*

Context	**configure router** *string* **l2tp group** *string* **lns**
Description	New sessions for L2TP ISA MDA
Default	per-session
Options	per-session, per-tunnel
Introduced	16.0.R1

mlppp

Context	**configure router** *string* **l2tp group** *string* **lns**
Description	Enter the mlppp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Administrative state of MLPPP in this L2TP tunnel group
Default	disable
Options	enable, disable
Introduced	16.0.R1

endpoint

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Enter the endpoint context
Introduced	16.0.R1

ip (*string* | *keyword*)

Context	**configure router** *string* **l2tp group** *string* **lns mlppp endpoint**
Description	Endpoint ID as an IP address
Introduced	16.0.R1
Notes	This element is part of a choice

mac (*string* | *keyword*)

Context	**configure router** *string* **l2tp group** *string* **lns mlppp endpoint**
Description	Endpoint ID as a MAC address
Introduced	16.0.R1
Notes	This element is part of a choice

interleave *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Enable link fragmentation and interleaving
Default	false
Introduced	16.0.R1

max-fragment-delay (*number* | *keyword*)

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Maximum fragment delay caused by transmission on a link
Default	no-fragmentation
Introduced	16.0.R1

max-links *number*

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Maximum MLPPP links
Range	1 to 8
Default	1
Introduced	16.0.R1

reassembly-timeout *number*

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Reassembly timeout
Range	100 | 1000
Default	1000
Introduced	16.0.R1

short-sequence-numbers *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns mlppp**
Description	Request a peer to send short sequence numbers
Default	false
Introduced	16.0.R1

ppp

Context	**configure router** *string* **l2tp group** *string* **lns**
Description	Enter the ppp context
Introduced	16.0.R1

authentication *keyword*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	PPP authentication protocol to negotiate
Default	pref-chap
Options	pap, chap, pref-chap, pref-pap
Introduced	16.0.R1

authentication-policy *string*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Authentication policy when a DHCP message is received
String Length	1 to 32
Introduced	16.0.R1

chap-challenge-length

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Enter the chap-challenge-length context
Introduced	16.0.R1

end *number*

Context	**configure router** *string* **l2tp group** *string* **lns ppp chap-challenge-length**
Description	Maximum PPP CHAP challenge length
Range	8 to 64
Default	64
Introduced	16.0.R1

start *number*

Context	**configure router** *string* **l2tp group** *string* **lns ppp chap-challenge-length**
Description	Minimum PPP CHAP challenge length
Range	8 to 64
Default	32
Introduced	16.0.R1

default-group-interface

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Enter the default-group-interface context
Introduced	16.0.R1

interface *string*

Context	**configure router** *string* **l2tp group** *string* **lns ppp default-group-interface**
Description	Group interface
String Length	1 to 32
Introduced	16.0.R1

service-name *service-name*

Context	**configure router** *string* **l2tp group** *string* **lns ppp default-group-interface**
Description	Service name
String Length	1 to 64
Introduced	16.0.R1

ipcp-subnet-negotiation *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Allow IPCP subnet negotiation for PPPoE hosts
Default	false
Introduced	16.0.R1

keepalive

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Enter the keepalive context
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **l2tp group** *string* **lns ppp keepalive**
Description	PPP keepalive interval
Range	10 to 300
Default	30
Introduced	16.0.R1

multiplier *number*

Context	**configure router** *string* **l2tp group** *string* **lns ppp keepalive**
Description	PPP keepalive multiplier
Range	1 to 5
Default	3
Introduced	16.0.R1

lcp-force-ack-accm *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Force acknowledgement of the LCP Asynchronous Control Character Map (ACCM) option
Default	false
Introduced	16.0.R1

lcp-ignore-magic-numbers *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Check Magic-Number field in LCP Echo-Request and LCP Echo-Reply messages
Default	false
Introduced	16.0.R1

mtu *number*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Maximum PPP MTU size
Range	512 to 9212
Default	1500
Introduced	16.0.R1

proxy-authentication *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Use authentication AVPs that are received from LAC
Default	false
Introduced	16.0.R1

proxy-lcp *boolean*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Proxy LCP AVPs that are received from LAC
Default	false
Introduced	16.0.R1

user-db *string*

Context	**configure router** *string* **l2tp group** *string* **lns ppp**
Description	Local user database for PPP PAP and CHAP authentication
String Length	1 to 32
Introduced	16.0.R1

local-address *ipv4-unicast-address*

Context	**configure router** *string* **l2tp group** *string*
Description	Local address
Introduced	16.0.R1

local-name *host-name*

Context	**configure router** *string* **l2tp group** *string*
Description	The local host name.
String Length	1 to 64
Introduced	16.0.R4

max-retries-estab *number*

Context	**configure router** *string* **l2tp group** *string*
Description	Maximum retries for established tunnels
Range	2 to 7
Introduced	16.0.R1

max-retries-not-estab *number*

Context	**configure router** *string* **l2tp group** *string*
Description	Maximum retries for unestablished tunnels
Range	2 to 7
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure router** *string* **l2tp group** *string*
Description	The password.
String Length	1 to 114
Introduced	16.0.R4

protocol *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **l2tp group** *string*
Description	Protocol version
Options	v2, v3, v3draft
Introduced	16.0.R1

radius-accounting-policy *string*

Context	**configure router** *string* **l2tp group** *string*
Description	RADIUS accounting policy
Reference	configure **aaa radius l2tp-accounting-policy** *string*
Introduced	16.0.R1

receive-window-size *number*

Context	**configure router** *string* **l2tp group** *string*
Description	L2TP receive window size
Range	4 to 1024
Introduced	16.0.R1

session-assign-method *keyword*

Context	**configure router** *string* **l2tp group** *string*
Description	Session assignment method
Options	existing-first, weighted, weighted-random
Introduced	16.0.R1

session-limit (*number* | *keyword*)

Context	**configure router** *string* **l2tp group** *string*
Description	Session limit
Introduced	16.0.R1

tunnel [tunnel-name] *string*

Context	**configure router** *string* **l2tp group** *string*
Description	Enter the tunnel context
Max. Elements	31
Introduced	16.0.R1

[tunnel-name] *string*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Tunnel name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Administrative state of the L2TP tunnel
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-establish *boolean*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Allow the tunnel to be automatically set up by the system
Default	false
Introduced	16.0.R1

avp-hiding *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	The AVP hiding algorithm
Options	never, sensitive, always
Introduced	16.0.R4

challenge *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Enable/disable the use of challenge-response authentication.
Options	false, true
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destruct-timeout *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Destruction timeout
Range	60 to 86400
Introduced	16.0.R1

failover

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Enter the failover context
Introduced	16.0.R1

recovery-method *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **failover**

Description Recovery method of the sequence numbers after failover

Options mcs, recovery-tunnel

Introduced 16.0.R1

recovery-time *number*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **failover**

Description Time requested from the L2TP peer before assuming failover as failed

Range 0 to 900

Introduced 16.0.R1

hello-interval (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **tunnel** *string*

Description Hello interval

Introduced 16.0.R1

idle-timeout (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **tunnel** *string*

Description Idle timeout

Introduced 16.0.R1

l2tpv3

Context **configure router** *string* **l2tp group** *string* **tunnel** *string*

Description Enter the l2tpv3 context

Introduced 16.0.R1

private-tcp-mss-adjust (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **l2tpv3**

Description TCP maximum segment size (MSS) on private network

Introduced 16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **l2tpv3**
Description TCP maximum segment size (MSS) on public network
Introduced 16.0.R1

lac

Context **configure router** *string* **l2tp group** *string* **tunnel** *string*
Description Enter the lac context
Introduced 16.0.R1

df-bit *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lac**
Description DF (do not fragment) bit in data traffic transmitted as LAC
Options false, true
Introduced 16.0.R1

lns

Context **configure router** *string* **l2tp group** *string* **tunnel** *string*
Description Enter the lns context
Introduced 16.0.R1

lns-group *string*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns**
Description ISA LNS group
Reference configure **isa lns-group** *number*
Introduced 16.0.R1

load-balance-method *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns**
Description New sessions for L2TP ISA MDA
Options per-session, per-tunnel
Introduced 16.0.R1

mlppp

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns**

Description Enter the mlppp context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Administrative state of MLPPP in the L2TP tunnel

Options enable, disable

Introduced 16.0.R1

endpoint

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Enter the endpoint context

Introduced 16.0.R1

ip (*string* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp endpoint**

Description Endpoint ID as an IP address

Introduced 16.0.R1

Notes This element is part of a choice

mac (*string* | *keyword*)

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp endpoint**

Description Endpoint ID as a MAC address

Introduced 16.0.R1

Notes This element is part of a choice

interleave *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**
Description	Use of Link fragmentation and interleaving
Options	false, true
Introduced	16.0.R1

max-fragment-delay *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**
Description	Maximum fragment delay caused by transmission on a link
Range	5 to 1000
Introduced	16.0.R1

max-links *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**
Description	Maximum MLPPP links
Range	1 to 8
Introduced	16.0.R1

reassembly-timeout *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**
Description	Reassembly timeout
Range	100 | 1000
Introduced	16.0.R1

short-sequence-numbers *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns mlppp**
Description	Request a peer to send short sequence numbers
Options	false, true
Introduced	16.0.R1

ppp

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns**
Description Enter the ppp context
Introduced 16.0.R1

authentication *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description PPP authentication protocol to negotiate
Options pap, chap, pref-chap, pref-pap
Introduced 16.0.R1

authentication-policy *string*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description Authentication policy when a DHCP message is received
String Length 1 to 32
Introduced 16.0.R1

chap-challenge-length

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description Enter the chap-challenge-length context
Introduced 16.0.R1

end *number*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp chap-challenge-length**
Description Minimum PPP CHAP challenge length
Range 8 to 64
Introduced 16.0.R1

start *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp chap-challenge-length**
Description	Minimum PPP CHAP challenge length
Range	8 to 64
Introduced	16.0.R1

default-group-interface

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Enter the default-group-interface context
Introduced	16.0.R1

interface *string*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp default-group-interface**
Description	Group interface
String Length	1 to 32
Introduced	16.0.R1

service-name *service-name*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp default-group-interface**
Description	Service name
String Length	1 to 64
Introduced	16.0.R1

ipcp-subnet-negotiation *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Use of IPCP subnet negotiation for PPPoE hosts
Options	false, true
Introduced	16.0.R1

keepalive

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Enter the keepalive context

Introduced 16.0.R1

interval *number*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp keepalive**

Description PPP keepalive interval

Range 10 to 300

Introduced 16.0.R1

multiplier *number*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp keepalive**

Description PPP keepalive multiplier

Range 1 to 5

Introduced 16.0.R1

lcp-force-ack-accm *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Forced acknowledgement of the LCP Asynchronous Control Character Map (ACCM) option

Options false, true

Introduced 16.0.R1

lcp-ignore-magic-numbers *keyword*

Context **configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Magic-Number field in LCP Echo-Request and LCP Echo-Reply messages that are checked

Options false, true

Introduced 16.0.R1

mtu *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Maximum PPP MTU size
Range	512 to 9212
Introduced	16.0.R1

proxy-authentication *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Authentication AVPs that are received from LAC
Options	false, true
Introduced	16.0.R1

proxy-lcp *keyword*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Use the Proxy LCP AVPs that are received from the LAC
Options	false, true
Introduced	16.0.R1

user-db *string*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Local user database for PPP PAP and CHAP authentication
String Length	1 to 32
Introduced	16.0.R1

local-address *ipv4-unicast-address*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Local address
Introduced	16.0.R1

local-name *host-name*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	The local host name.
String Length	1 to 64
Introduced	16.0.R4

max-retries-estab *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Maximum retries for established tunnels
Range	2 to 7
Introduced	16.0.R1

max-retries-not-estab *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Maximum retries for unestablished tunnels
Range	2 to 7
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	The password.
String Length	1 to 114
Introduced	16.0.R4

peer *ipv4-unicast-address*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Peer address
Introduced	16.0.R1

preference *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Tunnel preference number with its group
Range	0 to 16777215
Default	50
Introduced	16.0.R1

radius-accounting-policy *string*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	RADIUS accounting policy
Reference	configure **aaa radius l2tp-accounting-policy** *string*
Introduced	16.0.R1

receive-window-size *number*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	L2TP receive window size
Range	4 to 1024
Introduced	16.0.R1

remote-name *host-name*

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	Remote host name for tunnel
String Length	1 to 64
Introduced	16.0.R1

session-limit (*number* | *keyword*)

Context	**configure router** *string* **l2tp group** *string* **tunnel** *string*
Description	L2TP session limit for each tunnel of this router
Introduced	16.0.R1

group-session-limit *number*

Context **configure router** *string* **l2tp**

Description L2TP session limit for each group of this router

Range 1 to 250000

Introduced 16.0.R1

hello-interval (*number* | *keyword*)

Context **configure router** *string* **l2tp**

Description Hello interval

Introduced 16.0.R1

idle-timeout (*number* | *keyword*)

Context **configure router** *string* **l2tp**

Description Idle timeout

Introduced 16.0.R1

ignore-avps

Context **configure router** *string* **l2tp**

Description Enter the ignore-avps context

Introduced 16.0.R1

sequencing-required *boolean*

Context **configure router** *string* **l2tp ignore-avps**

Description Ignore Sequencing Required AVP

Default false

Introduced 16.0.R1

l2tpv3

Context **configure router** *string* **l2tp**

Description Enter the l2tpv3 context

Introduced 16.0.R1

cookie-length *number*

Context **configure router** *string* **l2tp l2tpv3**

Description Cookie field length

Range 4 | 8

Introduced 16.0.R1

digest-type *keyword*

Context **configure router** *string* **l2tp l2tpv3**

Description Hashing algorithm that calculates the message digest

Options md5, sha1

Introduced 16.0.R1

nonce-length *number*

Context **configure router** *string* **l2tp l2tpv3**

Description Length of the local L2TPv3 nonce (random number)

Range 0 | 16 to 64

Introduced 16.0.R1

password *encrypted-leaf*

Context **configure router** *string* **l2tp l2tpv3**

Description L2TPv3 password

String Length 1 to 114

Introduced 16.0.R1

private-tcp-mss-adjust *number*

Context **configure router** *string* **l2tp l2tpv3**

Description TCP maximum segment size (MSS) on private network

Range 512 to 9000

Introduced 16.0.R1

public-tcp-mss-adjust *number*

Context	**configure router** *string* **l2tp l2tpv3**
Description	TCP maximum segment size (MSS) on public network
Range	512 to 9000
Introduced	16.0.R1

transport-type

Context	**configure router** *string* **l2tp l2tpv3**
Description	Enter the transport-type context
Introduced	16.0.R1

ip *boolean*

Context	**configure router** *string* **l2tp l2tpv3 transport-type**
Description	Transport type that carries L2TPv3 tunnel
Default	false
Introduced	16.0.R1

lac

Context	**configure router** *string* **l2tp**
Description	Enter the lac context
Introduced	16.0.R1

calling-number-format *ascii-specification*

Context	**configure router** *string* **l2tp lac**
Description	Calling Number AVP for L2TP control messages
String Length	1 to 255
Default	%S %s
Introduced	16.0.R1

cisco-nas-port

Context	**configure router** *string* **l2tp lac**
Description	Enter the cisco-nas-port context
Introduced	16.0.R1

ethernet *binary-specification*

Context	**configure router** *string* **l2tp lac cisco-nas-port**
Description	L2TP Cisco NAS port AVP with binary patterns for Ethernet
String Length	1 to 255
Introduced	16.0.R1

df-bit *boolean*

Context	**configure router** *string* **l2tp lac**
Description	Send all L2TP packets with DF bit set to 1
Default	true
Introduced	16.0.R1

local-address *ipv4-unicast-address*

Context	**configure router** *string* **l2tp**
Description	Local address
Introduced	16.0.R1

local-name *host-name*

Context	**configure router** *string* **l2tp**
Description	Local host name
String Length	1 to 64
Introduced	16.0.R1

max-retries-estab *number*

Context	**configure router** *string* **l2tp**
Description	Maximum retries for established tunnels
Range	2 to 7
Introduced	16.0.R1

max-retries-not-estab *number*

Context	**configure router** *string* **l2tp**
Description	Maximum retries for unestablished tunnels
Range	2 to 7
Introduced	16.0.R1

next-attempt *keyword*

Context	**configure router** *string* **l2tp**
Description	Tunnel that is selected when previous session setup failed
Default	next-preference-level
Options	same-preference-level, next-preference-level
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure router** *string* **l2tp**
Description	L2TP password
String Length	1 to 114
Introduced	16.0.R1

peer-address-change-policy *keyword*

Context	**configure router** *string* **l2tp**
Description	Reaction when a L2TP response is received from a different address
Options	accept, ignore, reject
Introduced	16.0.R1

radius-accounting-policy *string*

Context	**configure router** *string* **l2tp**
Description	RADIUS accounting policy
Reference	configure **aaa radius l2tp-accounting-policy** *string*
Introduced	16.0.R1

receive-window-size *number*

Context	**configure router** *string* **l2tp**
Description	L2TP receive window size
Range	4 to 1024
Introduced	16.0.R1

replace-result-code

Context	**configure router** *string* **l2tp**
Description	Enter the replace-result-code context
Introduced	16.0.R1

cdn-invalid-dst *boolean*

Context	**configure router** *string* **l2tp replace-result-code**
Description	Enable/disable replacing result code 'Invalid destination' by result code 'General error' and general error code 'Insufficient resources to handle this operation now'.
Default	false
Introduced	16.0.R4

cdn-permanent-no-facilities *boolean*

Context	**configure router** *string* **l2tp replace-result-code**
Description	Enable/disable replacing result code 'Call failed due to lack of appropriate facilities being available (permanent condition)"Invalid destination' by result code 'General error' and general error code 'Insufficient resources to handle this operation now'.
Default	false
Introduced	16.0.R4

cdn-temporary-no-facilities *boolean*

Context	**configure router** *string* **l2tp replace-result-code**
Description	Enable/disable replacing result code 'Call failed due to lack of appropriate facilities being available (temporary condition)' by result code 'General error' and general error code 'Insufficient resources to handle this operation now'.
Default	false
Introduced	16.0.R4

rtm-debounce-time (*number* | *keyword*)

Context	**configure router** *string* **l2tp**
Description	Debounce timer that declares L2TP action for route table management events
Introduced	16.0.R1

session-assign-method *keyword*

Context	**configure router** *string* **l2tp**
Description	Session assignment method
Options	existing-first, weighted, weighted-random
Introduced	16.0.R1

session-limit *number*

Context	**configure router** *string* **l2tp**
Description	L2TP session limit of this router
Range	1 to 250000
Introduced	16.0.R1

tunnel-selection-blacklist

Context	**configure router** *string* **l2tp**
Description	Enter the tunnel-selection-blacklist context
Introduced	16.0.R1

add-tunnel-on

Context	**configure router** *string* **l2tp tunnel-selection-blacklist**
Description	Enter the add-tunnel-on context
Introduced	16.0.R1

address-change-timeout *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case of an address change timeout.
Default	false
Introduced	16.0.R4

cdn-err-code *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if a CDN is received with code: General error
Default	false
Introduced	16.0.R1

cdn-invalid-dst *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case a CDN is received with result code 'Invalid destination'.
Default	false
Introduced	16.0.R4

cdn-permanent-no-facilities *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case a CDN is received with result code 'Call failed due to lack of appropriate facilities being available (permanent condition)'.
Default	false
Introduced	16.0.R4

cdn-temporary-no-facilities *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case a CDN is received with result code 'Call failed due to lack of appropriate facilities being available (temporary condition)'.
Default	false
Introduced	16.0.R4

stop-ccn-err-code *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if a StopCNN is received with code: General error
Default	false
Introduced	16.0.R1

stop-ccn-other *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if a StopCNN is received with code: other than general error
Default	false
Introduced	16.0.R1

tx-cdn-not-established-in-time *boolean*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if CDN transmitted with code: Call not established within time allotted by LAC
Default	false
Introduced	16.0.R1

max-list-length (*number* | *keyword*)

Context	**configure router** *string* **l2tp tunnel-selection-blacklist**
Description	Tunnels or peers in the blacklist
Range	1 to 65535
Default	infinite
Units	minutes
Options	infinite
Introduced	16.0.R1

max-time *number*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist**
Description	Maximum time that a tunnel or peer can remain in the tunnel selection blacklist
Range	1 to 60
Default	5
Units	minutes
Introduced	16.0.R1

timeout-action *keyword*

Context	**configure router** *string* **l2tp tunnel-selection-blacklist**
Description	Action when a tunnel or peer remained in the blacklist for maximum time
Default	remove-from-blacklist
Options	remove-from-blacklist, try-one-session
Introduced	16.0.R1

tunnel-session-limit *number*

Context	**configure router** *string* **l2tp**
Description	L2TP session limit for each tunnel of this router
Range	1 to 65534
Introduced	16.0.R1

ldp

Context	**configure router** *string*
Description	Enter the ldp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ldp**
Description	Administrative state of the LDP instance
Default	enable
Options	enable, disable
Introduced	16.0.R1

aggregate-prefix-match

Context	**configure router** *string* **ldp**
Description	Enter the aggregate-prefix-match context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ldp aggregate-prefix-match**
Description	Administrative state of the LDP aggregate prefix match
Default	disable
Options	enable, disable
Introduced	16.0.R1

prefix-exclude *string*

Context	**configure router** *string* **ldp aggregate-prefix-match**
Description	Import policies to filter LDP label bindings received from LDP peers
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

class-forwarding *keyword*

Context	**configure router** *string* **ldp**
Description	Allow class-based forwarding for LDP over RSVP
Options	lsr, ler, lsr-and-ler
Introduced	16.0.R1

consider-system-ip-in-gep *boolean*

Context	**configure router** *string* **ldp**
Description	Use Global Export Policies to determine whether to create a FEC for the system IP addresses
Default	false
Introduced	16.0.R1

egress-statistics

Context	**configure router** *string* **ldp**
Description	Enter the egress-statistics context
Introduced	16.0.R1

fec-prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ldp egress-statistics**
Description	Enter the fec-prefix context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ldp egress-statistics fec-prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP prefix
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure router** *string* **ldp egress-statistics fec-prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Accounting policy ID
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ldp egress-statistics fec-prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Administrative state of the LDP egress statistics
Default	disable
Options	enable, disable
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure router** *string* **ldp egress-statistics fec-prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Collect statistics
Default	false
Introduced	16.0.R1

entropy-label-capability *boolean*

Context	**configure router** *string* **ldp**
Description	Allow receiving and processing of the entropy label and ELI on incoming packets of LDP LSPs
Default	false
Introduced	16.0.R1

export-policy *string*

Context	**configure router** *string* **ldp**
Description	First export policies to filter LDP label bindings advertised to LDP peers
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

export-tunnel-table *string*

Context	**configure router** *string* **ldp**
Description	Tunnel table export policies to export tunneled routes
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

fast-reroute

Context	**configure router** *string* **ldp**
Description	Enter the fast-reroute context
Introduced	16.0.R1

backup-sr-tunnel *boolean*

Context	**configure router** *string* **ldp fast-reroute**
Description	Use SR tunnel as a remote LFA backup tunnel next-hop by an LDP FEC
Default	false
Introduced	16.0.R1

fec-originate [fec-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ldp**
Description	Enter the fec-originate context
Introduced	16.0.R1

[fec-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ldp fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Static FEC IP prefix
Introduced	16.0.R1
Notes	This element is part of a list key

advertised-label *number*

Context	**configure router** *string* **ldp fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Label that is advertised to upstream peer
Range	32 to 1048575
Introduced	16.0.R1

interface *string*

Context	**configure router** *string* **ldp fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Interface name for this static FEC prefix
String Length	0 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

next-hop (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ldp fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address of the next hop
Introduced	16.0.R1
Notes	This element is part of a choice

pop *boolean*

Context	**configure router** *string* **ldp fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Pop the label and transmit without the label
Introduced	16.0.R1
Notes	This element is part of a choice

swap-label *number*

Context	**configure router** *string* **ldp fec-originate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Value mapped to egress label associated with next-hop entry that LSR uses to swap incoming label
Range	6 to 1048575
Introduced	16.0.R1
Notes	This element is part of a choice

generate-basic-fec-only *boolean*

Context	**configure router** *string* **ldp**
Description	Ability for mLDP to generate a basic FEC despite the actual root node being resolved using BGP
Default	false
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **ldp**
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure router** *string* **ldp graceful-restart**
Description	Enable graceful restart helper
Default	false
Introduced	16.0.R1

maximum-recovery-time *number*

Context	**configure router** *string* **ldp graceful-restart**
Description	Value for the local maximum recovery time
Range	15 to 1800
Default	120
Units	seconds
Introduced	16.0.R1

neighbor-liveness-time *number*

Context	**configure router** *string* **ldp graceful-restart**
Description	Value for the neighbor liveness timer
Range	5 to 300
Default	120
Units	seconds
Introduced	16.0.R1

implicit-null-label *boolean*

Context	**configure router** *string* **ldp**
Description	Signal the implicit null label value for all LDP FECs for which the node is the egress LER
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **ldp**
Description	Import policies to filter LDP label bindings received from LDP peers
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import-tunnel-table *string*

Context	**configure router** *string* **ldp**
Description	Tunnel table import policies to control the insertion of non-host prefixes resolved by LDP
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface-parameters

Context	**configure router** *string* **ldp**
Description	Enter the interface-parameters context
Introduced	16.0.R1

interface [ip-int-name] *string*

Context	**configure router** *string* **ldp interface-parameters**
Description	Enter the interface context
Introduced	16.0.R1

[ip-int-name] *string*

Context	**configure router** *string* **ldp interface-parameters interface** *string*
Description	Interface name
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context **configure router** *string* **ldp interface-parameters interface** *string*

Description Administrative state of LDP

Default enable

Options enable, disable

Introduced 16.0.R1

bfd-liveness

Context **configure router** *string* **ldp interface-parameters interface** *string*

Description Enter the bfd-liveness context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **bfd-liveness**

Description Allow BFD tracking of IPv4 LDP Session for interface

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **bfd-liveness**

Description Allow BFD tracking of IPv4 LDP Session for interface

Default false

Introduced 16.0.R1

ipv4

Context **configure router** *string* **ldp interface-parameters interface** *string*

Description Enter the ipv4 context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv4**

Description Administrative state of LDP

Default enable

Options enable, disable

Introduced 16.0.R1

fec-type-capability

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv4**

Description Enter the fec-type-capability context

Introduced 16.0.R1

p2mp-ipv4 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv4 fec-type-capability**

Description Enable IPv4 P2MP FEC capability

Default true

Introduced 16.0.R1

p2mp-ipv6 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv4 fec-type-capability**

Description Enable IPv6 P2MP FEC capability

Default true

Introduced 16.0.R1

prefix-ipv4 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv4 fec-type-capability**

Description Enable IPv4 prefix FEC capability

Default true

Introduced 16.0.R1

prefix-ipv6 *boolean*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4 fec-type-capability**
Description	Enable IPv6 prefix FEC capability
Default	true
Introduced	16.0.R1

hello

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4**
Description	Enter the hello context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4 hello**
Description	Factor value for Hello
Range	1 to 255
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4 hello**
Description	Timeout value for Hello
Range	3 to 65535
Introduced	16.0.R1

keepalive

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4**
Description	Enter the keepalive context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4 keepalive**
Description	Factor value for keepalive
Range	1 to 255
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4 keepalive**
Description	Time that LDP waits before tearing down session
Range	3 to 65535
Introduced	16.0.R1

local-lsr-id

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4**
Description	Enter the local-lsr-id context
Introduced	16.0.R1

interface-name *string*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4 local-lsr-id**
Description	Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1

transport-address *keyword*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv4**
Description	Transport address to set up the LDP TCP sessions
Options	interface, system
Introduced	16.0.R1

ipv6

Context **configure router** *string* **ldp interface-parameters interface** *string*

Description Enter the ipv6 context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6**

Description Administrative state of LDP

Default enable

Options enable, disable

Introduced 16.0.R1

fec-type-capability

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6**

Description Enter the fec-type-capability context

Introduced 16.0.R1

p2mp-ipv4 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 fec-type-capability**

Description Enable IPv4 P2MP FEC capability

Default true

Introduced 16.0.R1

p2mp-ipv6 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 fec-type-capability**

Description Enable IPv6 P2MP FEC capability

Default true

Introduced 16.0.R1

prefix-ipv4 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 fec-type-capability**
Description Enable IPv4 prefix FEC capability
Default true
Introduced 16.0.R1

prefix-ipv6 *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 fec-type-capability**
Description Enable IPv6 prefix FEC capability
Default true
Introduced 16.0.R1

hello

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6**
Description Enter the hello context
Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 hello**
Description Factor value for Hello
Range 1 to 255
Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 hello**
Description Timeout value for Hello
Range 3 to 65535
Introduced 16.0.R1

keepalive

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6**

Description Enter the keepalive context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 keepalive**

Description Factor value for keepalive

Range 1 to 255

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 keepalive**

Description Time that LDP waits before tearing down session

Range 3 to 65535

Introduced 16.0.R1

local-lsr-id

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6**

Description Enter the local-lsr-id context

Introduced 16.0.R1

format-32bit *boolean*

Context **configure router** *string* **ldp interface-parameters interface** *string* **ipv6 local-lsr-id**

Description Use IPv4 address of local LSR-ID interface as LSR-ID of the LDP LSR

Default false

Introduced 16.0.R1

interface-name *string*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv6 local-lsr-id**
Description	Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1

transport-address *keyword*

Context	**configure router** *string* **ldp interface-parameters interface** *string* **ipv6**
Description	Transport address to set up the LDP TCP sessions
Options	interface, system
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **ldp interface-parameters**
Description	Enter the ipv4 context
Introduced	16.0.R1

hello

Context	**configure router** *string* **ldp interface-parameters ipv4**
Description	Enter the hello context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp interface-parameters ipv4 hello**
Description	Value for the Hello factor
Range	1 to 255
Default	3
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp interface-parameters ipv4 hello**
Description	Timeout value for Hello
Range	3 to 65535
Default	15
Units	seconds
Introduced	16.0.R1

keepalive

Context	**configure router** *string* **ldp interface-parameters ipv4**
Description	Enter the keepalive context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp interface-parameters ipv4 keepalive**
Description	Value for the keep-alive factor
Range	1 to 255
Default	3
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp interface-parameters ipv4 keepalive**
Description	Timeout value for keepalive
Range	3 to 65535
Default	30
Units	seconds
Introduced	16.0.R1

transport-address *keyword*

Context	**configure router** *string* **ldp interface-parameters ipv4**
Description	Transport address to set up the LDP TCP sessions
Default	system
Options	interface, system
Introduced	16.0.R1

ipv6

Context	**configure router** *string* **ldp interface-parameters**
Description	Enter the ipv6 context
Introduced	16.0.R1

hello

Context	**configure router** *string* **ldp interface-parameters ipv6**
Description	Enter the hello context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp interface-parameters ipv6 hello**
Description	Value for the Hello factor
Range	1 to 255
Default	3
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp interface-parameters ipv6 hello**
Description	Timeout value for Hello
Range	3 to 65535
Default	15
Units	seconds
Introduced	16.0.R1

keepalive

Context **configure router** *string* **ldp interface-parameters ipv6**

Description Enter the keepalive context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp interface-parameters ipv6 keepalive**

Description Value for the keep-alive factor

Range 1 to 255

Default 3

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp interface-parameters ipv6 keepalive**

Description Timeout value for keepalive

Range 3 to 65535

Default 30

Units seconds

Introduced 16.0.R1

transport-address *keyword*

Context **configure router** *string* **ldp interface-parameters ipv6**

Description Transport address to set up the LDP TCP sessions

Default system

Options interface, system

Introduced 16.0.R1

label-withdrawal-delay *number*

Context **configure router** *string* **ldp**

Description Time interval during which LDP delays for the withdrawal of FEC-label binding

Range 3 to 120

Units seconds

Introduced 16.0.R1

ldp-shortcut

Context	**configure router** *string* **ldp**
Description	Enter the ldp-shortcut context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **ldp ldp-shortcut**
Description	Forward IPv4 packets by using LDP shortcuts
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **ldp ldp-shortcut**
Description	Forward IPv6 packets by using LDP shortcuts
Default	false
Introduced	16.0.R1

legacy-ipv4-lsr-interop *boolean*

Context	**configure router** *string* **ldp**
Description	Allow interoperability with legacy IPv4 LSR implementations
Default	false
Introduced	16.0.R1

lsp-bfd [prefix-list] *string*

Context	**configure router** *string* **ldp**
Description	Enter the lsp-bfd context
Max. Elements	16
Introduced	16.0.R1

[prefix-list] *string*

Context	**configure router** *string* **ldp lsp-bfd** *string*
Description	Name of a router policy options prefix list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

bfd-liveness *boolean*

Context	**configure router** *string* **ldp lsp-bfd** *string*
Description	Enable BFD on LDP LSPs with FECs that match the prefix list
Default	false
Introduced	16.0.R1

bfd-template *string*

Context	**configure router** *string* **ldp lsp-bfd** *string*
Description	BFD template to apply to BFD sessions associated with the prefix list
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

failure-action *keyword*

Context	**configure router** *string* **ldp lsp-bfd** *string*
Description	Reaction to BFD session failure for the prefix list
Options	down
Introduced	16.0.R1

lsp-ping-interval (*number* | *keyword*)

Context	**configure router** *string* **ldp lsp-bfd** *string*
Description	LSP ping transmit interval for periodic verification
Range	60 to 300
Default	60
Units	seconds
Options	none
Introduced	16.0.R1

priority *number*

Context **configure router** *string* **ldp lsp-bfd** *string*
Description Prefix list to control the search order
Range 1 to 99
Default 1
Introduced 16.0.R1

source-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure router** *string* **ldp lsp-bfd** *string*
Description Source address in LSP ping packets and BFD control packets associated with prefix list
Introduced 16.0.R1

mcast-upstream-asbr-frr *boolean*

Context **configure router** *string* **ldp**
Description Enable ASBR MoFRR to allow local leaf to perform MoFRR for multiple ASBRs
Default false
Introduced 16.0.R1

mcast-upstream-frr *boolean*

Context **configure router** *string* **ldp**
Description Use fast upstream switchover for mLDP FECs
Default false
Introduced 16.0.R1

mp-mbb-time *number*

Context **configure router** *string* **ldp**
Description MP MBB time
Range 0 to 10
Default 3
Units seconds
Introduced 16.0.R1

prefer-tunnel-in-tunnel *boolean*

Context	**configure router** *string* **ldp**
Description	Preference tunnel-in-tunnel over a simple LDP tunnel
Default	true
Introduced	16.0.R1

resolve-root-using *keyword*

Context	**configure router** *string* **ldp**
Description	Resolution route table for multicast FECs
Default	ucast-rtm
Options	ucast-rtm, mcast-rtm
Introduced	16.0.R1

session-parameters

Context	**configure router** *string* **ldp**
Description	Enter the session-parameters context
Introduced	16.0.R1

peer [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ldp session-parameters**
Description	Enter the peer context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address for server
Introduced	16.0.R1
Notes	This element is part of a list key

adv-adj-addr-only *boolean*

Context **configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Distribute only the local addresses used to establish the Hello adjacencies with a peer

Default false

Introduced 16.0.R1

adv-local-lsr-id *boolean*

Context **configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Advertise local LSR ID over a specified LDP session

Default false

Introduced 16.0.R1

community *string*

Context **configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Community string associated with a session to a specified peer

Introduced 16.0.R1

dod-label-distribution *boolean*

Context **configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Use LDP Downstream-on-Demand (DoD) label distribution procedures

Default false

Introduced 16.0.R1

export-addresses *string*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Export policies to determine which local addresses should be distributed to this peer
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

export-prefixes *string*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Export policies to determine which FEC prefixes are redistributed to LDP and TLDP peers
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

fec-limit

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the fec-limit context
Introduced	16.0.R1

limit *number*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **fec-limit**
Description	Maximum number of FECs to be accepted from this peer LSR
Range	0 | 1 to 4294967295
Default	0
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **fec-limit**
Description	Trap and syslog message to generate when reaching the threshold and limit
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **fec-limit**
Description	Threshold when a trap and a syslog message are generated as warning and when limit is reached
Range	1 to 100
Default	90
Introduced	16.0.R1

fec-type-capability

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the fec-type-capability context
Introduced	16.0.R1

p2mp *boolean*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **fec-type-capability**
Description	Enable P2MP FEC capability for the session
Default	true
Introduced	16.0.R1

prefix-ipv4 *boolean*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **fec-type-capability**
Description	Enable IPv4 prefix FEC capability for the session
Default	true
Introduced	16.0.R1

prefix-ipv6 *boolean*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **fec-type-capability**
Description	Enable IPv6 prefix FEC capability
Default	true
Introduced	16.0.R1

fec129-cisco-interop *boolean*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Allow translation between non-compliant FEC 129 formats of Cisco
Default	false
Introduced	16.0.R1

import-prefixes *string*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	FEC prefixes to be redistributed to this LDP peer
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

pe-id-mac-flush-interop *boolean*

Context	**configure router** *string* **ldp session-parameters peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	LDP to send the non-standard PE-ID TLV in an address withdraw message
Default	false
Introduced	16.0.R1

shortcut-local-ttl-propagate *boolean*

Context	**configure router** *string* **ldp**
Description	Propagate TTL over LSP shortcut for local packets
Default	true
Introduced	16.0.R1

shortcut-transit-ttl-propagate *boolean*

Context	**configure router** *string* **ldp**
Description	Enable/disable TTL propagation over LSP shortcut for transit packets.
Default	true
Introduced	16.0.R1

targeted-session

Context	**configure router** *string* **ldp**
Description	Enter the targeted-session context
Introduced	16.0.R1

export-prefixes *string*

Context	**configure router** *string* **ldp targeted-session**
Description	Export route policy to determine which routes are exported to this targeted LDP session
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import-prefixes *string*

Context	**configure router** *string* **ldp targeted-session**
Description	Import route policy to determine which routes are accepted from targeted LDP neighbors
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

ipv4

Context **configure router** *string* **ldp targeted-session**

Description Enter the ipv4 context

Introduced 16.0.R1

hello

Context **configure router** *string* **ldp targeted-session ipv4**

Description Enter the hello context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp targeted-session ipv4 hello**

Description Factor value for Hello

Range 1 to 255

Default 3

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp targeted-session ipv4 hello**

Description Timeout value for Hello

Range 3 to 65535

Default 45

Units seconds

Introduced 16.0.R1

hello-reduction

Context **configure router** *string* **ldp targeted-session ipv4**

Description Enter the hello-reduction context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ldp targeted-session ipv4 hello-reduction**
Description	Administrative state of suppression of periodic targeted Hello messages between LDP peers
Default	disable
Options	enable, disable
Introduced	16.0.R3

factor *number*

Context	**configure router** *string* **ldp targeted-session ipv4 hello-reduction**
Description	Hello reduction dampening factor
Range	3 to 20
Default	3
Introduced	16.0.R1

keepalive

Context	**configure router** *string* **ldp targeted-session ipv4**
Description	Enter the keepalive context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp targeted-session ipv4 keepalive**
Description	Factor value for keepalive
Range	1 to 255
Default	4
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp targeted-session ipv4 keepalive**
Description	Timeout value for keepalive
Range	3 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

ipv6

Context **configure router** *string* **ldp targeted-session**

Description Enter the ipv6 context

Introduced 16.0.R1

hello

Context **configure router** *string* **ldp targeted-session ipv6**

Description Enter the hello context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp targeted-session ipv6 hello**

Description Factor value for Hello

Range 1 to 255

Default 3

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp targeted-session ipv6 hello**

Description Timeout value for Hello

Range 3 to 65535

Default 45

Units seconds

Introduced 16.0.R1

hello-reduction

Context **configure router** *string* **ldp targeted-session ipv6**

Description Enter the hello-reduction context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ldp targeted-session ipv6 hello-reduction**
Description	Administrative state of suppression of periodic targeted Hello messages between LDP peers
Default	disable
Options	enable, disable
Introduced	16.0.R3

factor *number*

Context	**configure router** *string* **ldp targeted-session ipv6 hello-reduction**
Description	Hello reduction dampening factor
Range	3 to 20
Default	3
Introduced	16.0.R1

keepalive

Context	**configure router** *string* **ldp targeted-session ipv6**
Description	Enter the keepalive context
Introduced	16.0.R1

factor *number*

Context	**configure router** *string* **ldp targeted-session ipv6 keepalive**
Description	Factor value for keepalive
Range	1 to 255
Default	4
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ldp targeted-session ipv6 keepalive**
Description	Timeout value for keepalive
Range	3 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

peer [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure router** *string* **ldp targeted-session**

Description Enter the peer context

Introduced 16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description IP address of the peer

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Administrative state of the peer

Default enable

Options enable, disable

Introduced 16.0.R1

bfd-liveness *boolean*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enable BFD tracking of LDP session for the peer

Default false

Introduced 16.0.R1

hello

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the hello context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **hello**

Description Factor value for Hello

Range 1 to 255

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **hello**

Description Timeout value for Hello

Range 3 to 65535

Introduced 16.0.R1

hello-reduction

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the hello-reduction context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **hello-reduction**

Description Enable/disable hello-reduction.

Options enable, disable

Introduced 16.0.R3

factor *number*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **hello-reduction**

Description Hello reduction dampening factor

Range 3 to 20

Introduced 16.0.R1

keepalive

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the keepalive context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **keepalive**

Description Factor value for keepalive

Range 1 to 255

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **keepalive**

Description Time that LDP waits before tearing down session

Range 3 to 65535

Introduced 16.0.R1

local-lsr-id

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the local-lsr-id context

Introduced 16.0.R1

format-32bit *boolean*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **local-lsr-id**

Description Use IPv4 address of local LSR-ID interface as LSR-ID of the LDP LSR

Default false

Introduced 16.0.R1

interface-name *string*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **local-lsr-id**

Description Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP

Reference configure **router** *string* **interface** *interface-name*

Introduced 16.0.R1

tunneling

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the tunneling context

Introduced 16.0.R1

lsp [lsp-name] *string*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunneling**

Description Enter the lsp context

Max. Elements 4

Introduced 16.0.R1

[lsp-name] *string*

Context **configure router** *string* **ldp targeted-session peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunneling lsp** *string*

Description LSP name

String Length 1 to 64

Introduced 16.0.R1

Notes This element is part of a list key

peer-template [template-name] *string*

Context **configure router** *string* **ldp targeted-session**

Description Enter the peer-template context

Max. Elements 500

Introduced 16.0.R1

[template-name] *string*

Context	**configure router** *string* **ldp targeted-session peer-template** *string*
Description	Name for the targeted peer template
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ldp targeted-session peer-template** *string*
Description	Administrative state of the peer template
Default	enable
Options	enable, disable
Introduced	16.0.R1

adv-local-lsr-id *boolean*

Context	**configure router** *string* **ldp targeted-session peer-template** *string*
Description	Advertise local LSR ID over a specified LDP session
Default	false
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure router** *string* **ldp targeted-session peer-template** *string*
Description	Enable BFD tracking of LDP session for sessions created by peer template
Default	false
Introduced	16.0.R1

community *string*

Context	**configure router** *string* **ldp targeted-session peer-template** *string*
Description	Community string associated with a session to a specified peer
Introduced	16.0.R1

hello

Context **configure router** *string* **ldp targeted-session peer-template** *string*

Description Enter the hello context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp targeted-session peer-template** *string* **hello**

Description Factor value for Hello

Range 1 to 255

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp targeted-session peer-template** *string* **hello**

Description Timeout value for Hello

Range 3 to 65535

Introduced 16.0.R1

hello-reduction

Context **configure router** *string* **ldp targeted-session peer-template** *string*

Description Enter the hello-reduction context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **ldp targeted-session peer-template** *string* **hello-reduction**

Description Enable/disable hello-reduction.

Options enable, disable

Introduced 16.0.R3

factor *number*

Context **configure router** *string* **ldp targeted-session peer-template** *string* **hello-reduction**

Description Hello reduction dampening factor

Range 3 to 20

Introduced 16.0.R1

keepalive

Context **configure router** *string* **ldp targeted-session peer-template** *string*

Description Enter the keepalive context

Introduced 16.0.R1

factor *number*

Context **configure router** *string* **ldp targeted-session peer-template** *string* **keepalive**

Description Factor value for keepalive

Range 1 to 255

Introduced 16.0.R1

timeout *number*

Context **configure router** *string* **ldp targeted-session peer-template** *string* **keepalive**

Description Time that LDP waits before tearing down session

Range 3 to 65535

Introduced 16.0.R1

local-lsr-id

Context **configure router** *string* **ldp targeted-session peer-template** *string*

Description Enter the local-lsr-id context

Introduced 16.0.R1

interface-name *string*

Context	**configure router** *string* **ldp targeted-session peer-template** *string* **local-lsr-id**
Description	Name of network IP interface from which to obtain IP address to use as LSR-ID of LDP LSP
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1

tunneling *boolean*

Context	**configure router** *string* **ldp targeted-session peer-template** *string*
Description	Allow LDP over tunnels for sessions created by peer template
Default	false
Introduced	16.0.R1

peer-template-map [template-map-name] *string*

Context	**configure router** *string* **ldp targeted-session**
Description	Enter the peer-template-map context
Max. Elements	500
Introduced	16.0.R1

[template-map-name] *string*

Context	**configure router** *string* **ldp targeted-session peer-template-map** *string*
Description	Name to identify the targeted peer template
Reference	configure **router** *string* **ldp targeted-session peer-template** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

policy-map *string*

Context	**configure router** *string* **ldp targeted-session peer-template-map** *string*
Description	Targeted peer template to apply to the given policies
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

sdp-auto-targeted-session *boolean*

Context	**configure router** *string* **ldp targeted-session**
Description	Allow auto-creation of targeted sessions by SDP
Default	true
Introduced	16.0.R1

tcp-session-parameters

Context	**configure router** *string* **ldp**
Description	Enter the tcp-session-parameters context
Introduced	16.0.R1

peer-transport [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ldp tcp-session-parameters**
Description	Enter the peer-transport context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ldp tcp-session-parameters peer-transport** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address of an LDP peer
Introduced	16.0.R1
Notes	This element is part of a list key

authentication-key *encrypted-leaf*

Context	**configure router** *string* **ldp tcp-session-parameters peer-transport** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Authentication key for the peer
String Length	1 to 50
Introduced	16.0.R1

authentication-keychain *string*

Context **configure router** *string* **ldp tcp-session-parameters peer-transport** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description TCP authentication keychain to use for the session

Reference configure **system security keychains keychain** *string*

Introduced 16.0.R3

path-mtu-discovery *boolean*

Context **configure router** *string* **ldp tcp-session-parameters peer-transport** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Allow Path MTU Discovery for associated TCP connections

Default false

Introduced 16.0.R1

ttl-security *number*

Context **configure router** *string* **ldp tcp-session-parameters peer-transport** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Minimum TTL value for incoming BGP packet

Range 1 to 255

Introduced 16.0.R1

tunnel-down-damp-time *number*

Context **configure router** *string* **ldp**

Description Time interval for an LDP to damp a tunnel down event before posting to the Route Table Manager (RTM)

Range 0 to 20

Default 3

Units seconds

Introduced 16.0.R1

weighted-ecmp *boolean*

Context	**configure router** *string* **ldp**
Description	Allow weighted load-balancing
Default	false
Introduced	16.0.R1

leak-export

Context	**configure router** *string*
Description	Enter the leak-export context
Introduced	16.0.R1

leak-export-limit *number*

Context	**configure router** *string* **leak-export**
Description	Maximum number of routes exported due to leak-export policies.
Range	1 to 10000
Default	5
Introduced	16.0.R1

policy-name *string*

Context	**configure router** *string* **leak-export**
Description	Attribute policy-name for leak-export.
String Length	1 to 255
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

lsp-bfd

Context	**configure router** *string*
Description	Enter the lsp-bfd context
Introduced	16.0.R1

bfd-sessions *number*

Context	**configure router** *string* **lsp-bfd**
Description	Maximum number of the dynamically created LSP BFD session tail-ends
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

mc-maximum-routes

Context	**configure router** *string*
Description	Enter the mc-maximum-routes context
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **mc-maximum-routes**
Description	Action when the maximum number of multicast routes, held within a VRF context, is reached
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure router** *string* **mc-maximum-routes**
Description	Mid-level water marker for the number of multicast routes which this VRF holds
Range	1 to 100
Units	percent
Introduced	16.0.R1

value *number*

Context	**configure router** *string* **mc-maximum-routes**
Description	Maximum number of multicast routes to be configured on this virtual router
Range	1 to 2147483647
Introduced	16.0.R1

mld

Context	**configure router** *string*
Description	Enter the mld context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mld**
Description	Administrative state of MLD operation
Default	enable
Options	enable, disable
Introduced	16.0.R1

group-if-query-source-address *ipv6-unicast-or-linklocal-address*

Context	**configure router** *string* **mld**
Description	Source address in queries for group interfaces when not configured at group interface level
Introduced	16.0.R1

group-interface [group-interface-name] *interface-name*

Context	**configure router** *string* **mld**
Description	Enter the group-interface context
Introduced	16.0.R1

[group-interface-name] *interface-name*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Import policy to filter MLD packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context **configure router** *string* **mld group-interface** *interface-name*

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure router** *string* **mld group-interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure router** *string* **mld group-interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure router** *string* **mld group-interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure router** *string* **mld group-interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure router** *string* **mld group-interface** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Time between two consecutive host-query messages
Range	2 to 1024
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Time between group-specific query messages
Range	1 to 1023
Introduced	16.0.R1

query-response-interval *number*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

query-source-address *ipv6-unicast-or-linklocal-address*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Source address for MLD queries
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

sub-hosts-only *boolean*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Allow MLD traffic from known hosts only
Default	true
Introduced	16.0.R1

subnet-check *boolean*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	Enable subnet checking
Default	true
Introduced	16.0.R1

version *keyword*

Context	**configure router** *string* **mld group-interface** *interface-name*
Description	MLD protocol version
Default	2
Options	1, 2
Introduced	16.0.R1

interface [ip-interface-name] *interface-name*

Context	**configure router** *string* **mld**
Description	Enter the interface context
Introduced	16.0.R1

[ip-interface-name] *interface-name*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Import policy to filter MLD packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context **configure router** *string* **mld interface** *interface-name*

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure router** *string* **mld interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure router** *string* **mld interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure router** *string* **mld interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure router** *string* **mld interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure router** *string* **mld interface** *interface-name* **mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

level [level-id] *number*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints**
Description	Enter the level context
Introduced	16.0.R1

[level-id] *number*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth level ID for a multicast CAC constraint
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

bandwidth *number*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth available for this level
Range	0 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

number-down [number-lag-port-down] *number*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints**
Description	Enter the number-down context
Introduced	16.0.R1

[number-lag-port-down] *number*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Number of LAG ports down
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure router** *string* **mld interface** *interface-name* **mcac mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **mld interface** *interface-name* **mcac**
Description	Multicast CAC policy name
Reference	configure **mcac policy** *string*
Introduced	16.0.R1

query-interval *number*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Time between two consecutive host-query messages
Range	2 to 1024
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Time between group-specific query messages
Range	1 to 1023
Introduced	16.0.R1

query-response-interval *number*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure router** *string* **mld interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

ssm-translate

Context	**configure router** *string* **mld interface** *interface-name*
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv6-multicast-address* **end** *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

static

Context	**configure router** *string* **mld interface** *interface-name*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group** *ipv6-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group** *ipv6-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure router** *string* **mld interface** *interface-name* **static group** *ipv6-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

group-range start *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*

Context	**configure router** *string* **mld interface** *interface-name* **static**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	Start of group range of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv6-multicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	End of group range for multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

step *ipv6-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	Step interval for the group-range addresses
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context **configure router** *string* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*

Description any source address (*,G)

Introduced 16.0.R3

Notes This element is part of a choice

version *keyword*

Context **configure router** *string* **mld interface** *interface-name*

Description MLD protocol version

Default 2

Options 1, 2

Introduced 16.0.R1

query-interval *number*

Context **configure router** *string* **mld**

Description Time between two consecutive host-query messages

Range 2 to 1024

Default 125

Units seconds

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure router** *string* **mld**

Description Time between group-specific query messages

Range 1 to 1023

Default 1

Units seconds

Introduced 16.0.R1

query-response-interval *number*

Context	**configure router** *string* **mld**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure router** *string* **mld**
Description	Robust count to tune for the expected packet loss on a subnet
Range	2 to 10
Default	2
Introduced	16.0.R1

ssm-translate

Context	**configure router** *string* **mld**
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv6-multicast-address* **end** *ipv6-multicast-address*

Context	**configure router** *string* **mld ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv6-multicast-address*

Context	**configure router** *string* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv6-multicast-address*

Context	**configure router** *string* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure router** *string* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

mpls

Context	**configure router** *string*
Description	Enter the mpls context
Introduced	16.0.R1

admin-group-frr *boolean*

Context	**configure router** *string* **mpls**
Description	Use admin group constraints for FRR path computation
Default	false
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls**
Description	Administrative state of the MPLS instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-bandwidth-multipliers

Context	**configure router** *string* **mpls**
Description	Enter the auto-bandwidth-multipliers context
Introduced	16.0.R1

adjust-multiplier *number*

Context	**configure router** *string* **mpls auto-bandwidth-multipliers**
Description	Collection intervals in a sample interval
Range	1 to 16383
Default	288
Introduced	16.0.R1

sample-multiplier *number*

Context	**configure router** *string* **mpls auto-bandwidth-multipliers**
Description	Collection intervals in a sample interval
Range	1 to 511
Default	1
Introduced	16.0.R1

auto-lsp [template-name] *string*

Context	**configure router** *string* **mpls**
Description	Enter the auto-lsp context
Max. Elements	500
Introduced	16.0.R1

[template-name] *string*

Context	**configure router** *string* **mpls auto-lsp** *string*
Description	Name of the LSP template used to automatically create and signal multiple LSP instances
Reference	configure **router** *string* **mpls lsp-template** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

one-hop *boolean*

Context	**configure router** *string* **mpls auto-lsp** *string*
Description	Enable the automatic signaling of one-hop point-to-point LSPs
Default	false
Introduced	16.0.R3
Notes	This element is part of a choice

policy *string*

Context	**configure router** *string* **mpls auto-lsp** *string*
Description	Specify policies to bind to this LSP template to enable automatic creation of mesh point to point (P2P) LSPs.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is part of a choice This element is ordered by user

aux-stats

Context	**configure router** *string* **mpls**
Description	Enter the aux-stats context
Introduced	16.0.R1

sr *boolean*

Context	**configure router** *string* **mpls aux-stats**
Description	Count Segment Routing (SR) traffic in the auxiliary MPLS statistics table
Default	false
Introduced	16.0.R1

bypass-resignal-timer *number*

Context	**configure router** *string* **mpls**
Description	Value for the LSP resignal timer
Range	30 to 10080
Units	minutes
Introduced	16.0.R1

class-forwarding-policy [policy-name] *string*

Context	**configure router** *string* **mpls**
Description	Enter the class-forwarding-policy context
Max. Elements	15
Introduced	16.0.R1

[policy-name] *string*

Context	**configure router** *string* **mpls class-forwarding-policy** *string*
Description	Name of class forwarding policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

default-set *number*

Context	**configure router** *string* **mpls class-forwarding-policy** *string*
Description	Default forwarding set ID
Range	1 to 6
Default	1
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure router** *string* **mpls class-forwarding-policy** *string*
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure router** *string* **mpls class-forwarding-policy** *string* **fc** *keyword*
Description	Forwarding class name for LSP
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

forwarding-set *number*

Context	**configure router** *string* **mpls class-forwarding-policy** *string* **fc** *keyword*
Description	Forwarding set ID for forwarding classes
Range	1 to 6
Default	1
Introduced	16.0.R1

cspf-on-loose-hop *boolean*

Context	**configure router** *string* **mpls**
Description	Calculate CSPF until next loose hop on LSR
Default	false
Introduced	16.0.R1

dynamic-bypass *boolean*

Context	**configure router** *string* **mpls**
Description	Create dynamic bypass LSPs in FRR
Default	true
Introduced	16.0.R1

entropy-label

Context **configure router** *string* **mpls**

Description Enter the entropy-label context

Introduced 16.0.R1

rsvp-te *boolean*

Context **configure router** *string* **mpls entropy-label**

Description Apply entropy labels to RSVP-TE LSPs

Default true

Introduced 16.0.R1

sr-te *boolean*

Context **configure router** *string* **mpls entropy-label**

Description Apply entropy labels to SR-TE LSPs

Default true

Introduced 16.0.R1

exponential-backoff-retry *boolean*

Context **configure router** *string* **mpls**

Description Use exponential back-off timer when retrying an LSP

Default false

Introduced 16.0.R1

forwarding-policies

Context **configure router** *string* **mpls**

Description Enter the forwarding-policies context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls forwarding-policies**
Description	Administrative state of MPLS forwarding policies
Default	disable
Options	enable, disable
Introduced	16.0.R1

forwarding-policy [policy-name] *string*

Context	**configure router** *string* **mpls forwarding-policies**
Description	Enter the forwarding-policy context
Max. Elements	65536
Introduced	16.0.R1

[policy-name] *string*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Forwarding policy name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Administrative state of the forwarding policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

binding-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Binding label
Range	32 to 1048575
Introduced	16.0.R1

endpoint (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Configure endpoint address.
Introduced	16.0.R1

ingress-statistics

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Enter the ingress-statistics context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **ingress-statistics**
Description	Administrative state of egress or ingress statistics
Default	disable
Options	enable, disable
Introduced	16.0.R1

metric *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Configure metric.
Range	1 to 16777215
Introduced	16.0.R4

next-hop-group [index] *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Enter the next-hop-group context
Max. Elements	32
Introduced	16.0.R1

[index] *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number*
Description	Index for next hop group
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number*
Description	Administrative state of next hop group
Default	disable
Options	enable, disable
Introduced	16.0.R1

backup-next-hop

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number*
Description	Enter the backup-next-hop context
Introduced	16.0.R1

next-hop (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **backup-next-hop**
Description	Next hop address
Introduced	16.0.R1

pushed-labels [index] *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **backup-next-hop**
Description	Enter the pushed-labels context
Max. Elements	10
Introduced	16.0.R4

[index] *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **backup-next-hop pushed-labels** *number*
Description	Index for push-label.
Range	1 to 10
Introduced	16.0.R4
Notes	This element is part of a list key

label *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **backup-next-hop pushed-labels** *number*
Description	Push label value.
Range	1 to 1048575
Introduced	16.0.R4
Notes	This element is mandatory

load-balancing-weight *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number*
Description	Configure load balancing weight.
Range	1 to max
Introduced	16.0.R1

primary-next-hop

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number*
Description	Enter the primary-next-hop context
Introduced	16.0.R1

next-hop (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **primary-next-hop**
Description	Next hop address
Introduced	16.0.R1

pushed-labels [index] *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **primary-next-hop**
Description	Enter the pushed-labels context
Max. Elements	10
Introduced	16.0.R4

[index] *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **primary-next-hop pushed-labels** *number*
Description	Index for push-label.
Range	1 to 10
Introduced	16.0.R4
Notes	This element is part of a list key

label *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number* **primary-next-hop pushed-labels** *number*
Description	Push label value.
Range	1 to 1048575
Introduced	16.0.R4
Notes	This element is mandatory

resolution-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string* **next-hop-group** *number*
Description	Resolution type for next hop group
Options	direct, indirect
Introduced	16.0.R1
Notes	This element is mandatory

preference *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Preference number
Range	1 to 255
Default	255
Introduced	16.0.R1

revert-timer *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Revert timer
Range	1 to 600
Units	seconds
Introduced	16.0.R1

tunnel-table-pref *number*

Context	**configure router** *string* **mpls forwarding-policies forwarding-policy** *string*
Description	Configure tunnel table preference.
Range	1 to 255
Default	255
Introduced	16.0.R4

reserved-label-block *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls forwarding-policies**
Description	Reserved label block
Reference	configure **router** *string* **mpls-labels reserved-label-block** *string*
Introduced	16.0.R1

frr-object *boolean*

Context	**configure router** *string* **mpls**
Description	Signal with fast reroute object
Default	true
Introduced	16.0.R1

hold-timer *number*

Context	**configure router** *string* **mpls**
Description	Hold timer value
Range	0 to 10
Default	1
Units	seconds
Introduced	16.0.R1

ingress-statistics

Context	**configure router** *string* **mpls**
Description	Enter the ingress-statistics context
Introduced	16.0.R1

lsp sender (*ipv4-address-no-zone* | *ipv6-address-no-zone*) lsp-name *string*

Context	**configure router** *string* **mpls ingress-statistics**
Description	Enter the lsp context
Introduced	16.0.R1

sender (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls ingress-statistics lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **lsp-name** *string*
Description	Sender address
Introduced	16.0.R1
Notes	This element is part of a list key

lsp-name *string*

Context	**configure router** *string* **mpls ingress-statistics lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **lsp-name** *string*
Description	Administrative name for Labeled Switch Path.
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure router** *string* **mpls ingress-statistics lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **lsp-name** *string*
Description	Accounting policy ID
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls ingress-statistics lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **lsp-name** *string*
Description	Administrative state of ingress statistics for LSP
Default	disable
Options	enable, disable
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure router** *string* **mpls ingress-statistics lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **lsp-name** *string*
Description	Collect statistics
Default	false
Introduced	16.0.R1

p2mp-template-lsp sender (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*

Context	**configure router** *string* **mpls ingress-statistics**
Description	Enter the p2mp-template-lsp context
Introduced	16.0.R1

sender (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls ingress-statistics p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	Sender address
Introduced	16.0.R1
Notes	This element is part of a list key

rsvp-session-name *string*

Context	**configure router** *string* **mpls ingress-statistics p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	RSVP session name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure router** *string* **mpls ingress-statistics p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	Accounting policy ID
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls ingress-statistics p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	Administrative state of ingress statistics for LSP
Default	disable
Options	enable, disable
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure router** *string* **mpls ingress-statistics p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	Collect statistics
Default	false
Introduced	16.0.R1

max-stats *number*

Context	**configure router** *string* **mpls ingress-statistics p2mp-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	Maximum number of statistic indices
Range	1 to 8191
Default	8191
Introduced	16.0.R1

p2p-template-lsp sender (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*

Context	**configure router** *string* **mpls ingress-statistics**
Description	Enter the p2p-template-lsp context
Introduced	16.0.R1

sender (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls ingress-statistics p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	Sender address
Introduced	16.0.R1
Notes	This element is part of a list key

rsvp-session-name *string*

Context	**configure router** *string* **mpls ingress-statistics p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*
Description	RSVP session name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context **configure router** *string* **mpls ingress-statistics p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*

Description Accounting policy ID

Reference configure **log accounting-policy** *number*

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **mpls ingress-statistics p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*

Description Administrative state of ingress statistics for LSP

Default disable

Options enable, disable

Introduced 16.0.R1

collect-stats *boolean*

Context **configure router** *string* **mpls ingress-statistics p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*

Description Collect statistics

Default false

Introduced 16.0.R1

max-stats *number*

Context **configure router** *string* **mpls ingress-statistics p2p-template-lsp sender** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **rsvp-session-name** *string*

Description Maximum number of statistic indices

Range 1 to 8191

Default 8191

Introduced 16.0.R1

interface [interface-name] *string*

Context **configure router** *string* **mpls**

Description Enter the interface context

Introduced 16.0.R1

[interface-name] *string*

Context	**configure router** *string* **mpls interface** *string*
Description	Router interface name
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-group *string*

Context	**configure router** *string* **mpls interface** *string*
Description	Name of the admin group membership of the MPLS interface
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls interface** *string*
Description	Administrative state of MPLS
Default	enable
Options	enable, disable
Introduced	16.0.R1

label-map [in-label] *number*

Context	**configure router** *string* **mpls interface** *string*
Description	Enter the label-map context
Introduced	16.0.R1

[in-label] *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls interface** *string* **label-map** *number*
Description	Match the incoming MPLS label
Range	32 to 1048575
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls interface** *string* **label-map** *number*
Description	Administrative state of the label map
Default	disable
Options	enable, disable
Introduced	16.0.R1

pop

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls interface** *string* **label-map** *number*
Description	Pop (remove) the incoming label and forward packet based on service header
Introduced	16.0.R1
Notes	This element is part of a choice

swap

Context	**configure router** *string* **mpls interface** *string* **label-map** *number*
Description	Enter the **swap** context
Introduced	16.0.R1

next-hop *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls interface** *string* **label-map** *number* **swap**
Description	IP address for the next hop
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

out-label (*number* | *keyword*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls interface** *string* **label-map** *number* **swap**
Description	Push specific label onto the top of the outgoing packet's label stack
Range	16 to 1048575
Options	implicit-null-label
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

srlg-group [name] *string*

Context	**configure router** *string* **mpls interface** *string*
Description	Enter the srlg-group context
Max. Elements	64
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **mpls interface** *string* **srlg-group** *string*
Description	Shared Risk Link Group (SRLG) name
Reference	configure **routing-options if-attribute srlg-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

te-metric *number*

Context	**configure router** *string* **mpls interface** *string*
Description	TE metric for the interface
Range	1 to 16777215
Introduced	16.0.R1

least-fill-min-thd *number*

Context	**configure router** *string* **mpls**
Description	Percentage of the least fill minimum threshold value
Range	0 to 100
Default	5
Introduced	16.0.R1

least-fill-reoptim-thd *number*

Context	**configure router** *string* **mpls**
Description	Percentage of the least fill reoptimization threshold value
Range	0 to 100
Default	10
Introduced	16.0.R1

logger-event-bundling *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls**
Description	Merge and bundle MPLS traps
Default	false
Introduced	16.0.R1

lsp [lsp-name] *string*

Context	**configure router** *string* **mpls**
Description	Enter the lsp context
Introduced	16.0.R1

[lsp-name] *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Labeled Switch path name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

adaptive *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enable/disable make-before-break functionality.
Default	true
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string*
Description	Administrative state of the LSP
Default	disable
Options	enable, disable
Introduced	16.0.R1

admin-tag [name] *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the admin-tag context
Max. Elements	4
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **mpls lsp** *string* **admin-tag** *string*
Description	Name of the admin tags
Reference	configure **routing-options admin-tags admin-tag** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

adspec *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enable/disable inclusion of ADSPEC object in RSVP messages.
Default	false
Introduced	16.0.R1

auto-bandwidth

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the auto-bandwidth context
Introduced	16.0.R1

adjust-down

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Enter the adjust-down context
Introduced	16.0.R1

bw *number*

Context **configure router** *string* **mpls lsp** *string* **auto-bandwidth adjust-down**

Description Minimum difference in absolute bandwidth between LSP bandwidth reservation and max average data rate

Range 0 to 100000

Default 0

Units megabps

Introduced 16.0.R1

percent *number*

Context **configure router** *string* **mpls lsp** *string* **auto-bandwidth adjust-down**

Description Minimum difference in percent between LSP bandwidth reservation and the maximum average data rate

Range 0 to 100

Default 5

Introduced 16.0.R1

adjust-up

Context **configure router** *string* **mpls lsp** *string* **auto-bandwidth**

Description Enter the adjust-up context

Introduced 16.0.R1

bw *number*

Context **configure router** *string* **mpls lsp** *string* **auto-bandwidth adjust-up**

Description Minimum difference in absolute bandwidth between LSP bandwidth reservation and max average data rate

Range 0 to 100000

Default 0

Units megabps

Introduced 16.0.R1

percent *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth adjust-up**
Description	Minimum difference in percent between LSP bandwidth reservation and the maximum average data rate
Range	0 to 100
Default	5
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Enter the fc context
Max. Elements	8
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth fc** *keyword*
Description	Forwarding class name for LSP
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

sampling-weight *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth fc** *keyword*
Description	Forwarding class weight for LSP
Range	0 to 100
Default	100
Introduced	16.0.R1

max-bandwidth *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Maximum bandwidth of auto-bandwidth to request for the LSP
Range	0 to 100000
Default	100000
Units	megabps
Introduced	16.0.R1

min-bandwidth *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Minimum bandwidth of auto-bandwidth to request for the LSP
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

monitor-bandwidth *boolean*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Collect and display auto-bandwidth measurements for the LSP
Default	false
Introduced	16.0.R1

multipliers

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Enter the multipliers context
Introduced	16.0.R1

adjust-multiplier *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth multipliers**
Description	Number of collection intervals in the adjust interval
Range	1 to 16383
Introduced	16.0.R1

sample-multiplier *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth multipliers**
Description	Multiplier for collection intervals in a sample interval
Range	1 to 511
Introduced	16.0.R1

overflow-limit

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Enter the overflow-limit context
Introduced	16.0.R1

bw *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth overflow-limit**
Description	Minimum difference in absolute bandwidth between the LSP bandwidth and the sampled data rate
Range	1 to 100000
Units	megabps
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth overflow-limit**
Description	Number of overflow samples to trigger an overflow auto-bandwidth adjustment attempt
Range	1 to 10
Introduced	16.0.R1
Notes	This element is mandatory

threshold *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth overflow-limit**
Description	Minimum difference in percent between the LSP bandwidth and the sampled data rate
Range	0 to 100
Default	0
Introduced	16.0.R1

underflow-limit

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Enter the underflow-limit context
Introduced	16.0.R1

bw *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth underflow-limit**
Description	Minimum difference in absolute bandwidth between the LSP bandwidth and the sampled data rate
Range	1 to 100000
Units	megabps
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth underflow-limit**
Description	Number of overflow samples to trigger an overflow auto-bandwidth adjustment attempt
Range	1 to 10
Introduced	16.0.R1
Notes	This element is mandatory

threshold *number*

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth underflow-limit**
Description	Minimum difference in percent between the LSP bandwidth and the sampled data rate
Range	0 to 100
Default	0
Introduced	16.0.R1

use-last-adj-bw

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth**
Description	Enter the **use-last-adj-bw** context
Introduced	16.0.R5

secondary-retry-limit (*number* | *keyword*)

Context	**configure router** *string* **mpls lsp** *string* **auto-bandwidth use-last-adj-bw**
Description	Specify the max number of retry attempts that will be made to signal the secondary path with the last adjusted bandwidth.
Default	5
Introduced	16.0.R5

bfd

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the bfd context
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure router** *string* **mpls lsp** *string* **bfd**
Description	Enable BFD
Default	false
Introduced	16.0.R1

bfd-template *string*

Context	**configure router** *string* **mpls lsp** *string* **bfd**
Description	BFD template
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

failure-action *keyword*

Context	**configure router** *string* **mpls lsp** *string* **bfd**
Description	Perform action when LSP BFD session fails
Default	none
Options	none, down, failover
Introduced	16.0.R1

lsp-ping-interval (*number* | *keyword*)

Context	**configure router** *string* **mpls lsp** *string* **bfd**
Description	Interval for periodic LSP ping for BFD bootstrapping
Range	60 to 300
Default	60
Units	seconds
Options	none
Introduced	16.0.R1

bgp-shortcut *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Include LSP for BGP routes
Introduced	16.0.R1

bgp-transport-tunnel *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Include LSP as transport LSP for labeled BGP routes
Introduced	16.0.R1

class-forwarding

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the class-forwarding context
Introduced	16.0.R1

default-lsp *boolean*

Context	**configure router** *string* **mpls lsp** *string* **class-forwarding**
Description	Use the default LSP configuration for specified LSP or LSP template
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

fc *keyword*

Context	**configure router** *string* **mpls lsp** *string* **class-forwarding**
Description	One or more forwarding classes for LSP instances
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1
Notes	This element is part of a choice

forwarding-set

Context	**configure router** *string* **mpls lsp** *string* **class-forwarding**
Description	Enter the **forwarding-set** context
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **mpls lsp** *string* **class-forwarding forwarding-set**
Description	Name for the class based forwarding policy for LSP instances
Reference	configure **router** *string* **mpls class-forwarding-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

set *number*

Context	**configure router** *string* **mpls lsp** *string* **class-forwarding forwarding-set**
Description	Forwarding set ID
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a choice

class-type *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Configure class type.
Range	0 to 7
Default	0
Introduced	16.0.R1

cspf

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the cspf context
Introduced	16.0.R1

use-te-metric *boolean*

Context	**configure router** *string* **mpls lsp** *string* **cspf**
Description	TE metric to the LSP path computation by CSPF
Default	false
Introduced	16.0.R1

egress-statistics

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the egress-statistics context
Introduced	16.0.R1

accounting-policy *string*

Context	**configure router** *string* **mpls lsp** *string* **egress-statistics**
Description	Accounting policy ID
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **egress-statistics**
Description	Administrative state of ingress statistics for LSP
Default	disable
Options	enable, disable
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure router** *string* **mpls lsp** *string* **egress-statistics**
Description	Collect statistics
Default	false
Introduced	16.0.R1

entropy-label *keyword*

Context	**configure router** *string* **mpls lsp** *string*
Description	Entropy label
Options	false, true
Introduced	16.0.R1

exclude-admin-group *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Name of admin group excluded when LSP is set up
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

exclude-node (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls lsp** *string*
Description	Exclude Routers object to be included in the bypass path message
Introduced	16.0.R1

fast-reroute

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the fast-reroute context
Introduced	16.0.R1

frr-method *keyword*

Context	**configure router** *string* **mpls lsp** *string* **fast-reroute**
Description	Fast Reroute method
Options	one-to-one, facility
Introduced	16.0.R1

hop-limit *number*

Context	**configure router** *string* **mpls lsp** *string* **fast-reroute**
Description	Total number of hops a detour or backup LSP can take before merging back onto the main LSP path
Range	0 to 255
Default	16
Introduced	16.0.R1

node-protect *boolean*

Context	**configure router** *string* **mpls lsp** *string* **fast-reroute**
Description	Enable node and link protection for the specified LSP
Introduced	16.0.R1

propagate-admin-group *boolean*

Context	**configure router** *string* **mpls lsp** *string* **fast-reroute**
Description	Enable signaling of the primary LSP path admin-group constraints in the FRR object at ingress
Default	false
Introduced	16.0.R1

from (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp** *string*
Description	Source IP address of this LSP
Introduced	16.0.R1

hop-limit *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Maximum number of hops that an LSP can traverse including ingress and egress routers
Range	2 to 255
Default	255
Introduced	16.0.R1

igp-shortcut

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the igp-shortcut context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **igp-shortcut**
Description	Administrative state of the LSP to be used as a shortcut while resolving IGP routes
Options	enable, disable
Introduced	16.0.R1

lfa-type *keyword*

Context	**configure router** *string* **mpls lsp** *string* **igp-shortcut**
Description	Specific RSVP LSP by IS-IS and OSPF routing protocols to assign as shortcut or as forwarding adjacency
Options	lfa-protect, lfa-only
Introduced	16.0.R1
Notes	This element is part of a choice

relative-metric *number*

Context	**configure router** *string* **mpls lsp** *string* **igp-shortcut**
Description	Shortest IGP cost between the endpoints of the LSP plus the configured offset
Range	-10 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

include-admin-group *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Admin group name included when LSP is set up
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

ingress-statistics

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the ingress-statistics context
Introduced	16.0.R1

accounting-policy *string*

Context	**configure router** *string* **mpls lsp** *string* **ingress-statistics**
Description	Accounting policy ID
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **ingress-statistics**
Description	Administrative state of ingress statistics for LSP
Default	disable
Options	enable, disable
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure router** *string* **mpls lsp** *string* **ingress-statistics**
Description	Collect statistics
Default	false
Introduced	16.0.R1

ldp-over-rsvp *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Include this LSP in LDP over RSVP
Introduced	16.0.R1

least-fill *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Configure use of least-fill path selection method.
Default	false
Introduced	16.0.R1

load-balancing-weight *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Configure load balancing weight.
Range	1 to max
Introduced	16.0.R1

main-ct-retry-limit *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Max number of attempts before switching to backup class type.
Range	1 to 10000
Introduced	16.0.R1

max-sr-labels

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the max-sr-labels context
Introduced	16.0.R1

additional-frr-labels *number*

Context	**configure router** *string* **mpls lsp** *string* **max-sr-labels**
Description	Value for the maximum additional overhead labels
Range	0 to 4
Default	1
Introduced	16.0.R1

label-stack-size *number*

Context	**configure router** *string* **mpls lsp** *string* **max-sr-labels**
Description	Maximum Label Stack size
Range	1 to 11
Default	6
Introduced	16.0.R1

metric *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	LSP metric that forces to a constant value
Range	0 to 16777215
Introduced	16.0.R1

p2mp-id *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Unique identifier as Point-to-Multipoint (P2MP) identifier
Range	1 to 65535
Introduced	16.0.R1

path-profile [profile-id] *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the path-profile context
Max. Elements	5
Introduced	16.0.R1

[profile-id] *number*

Context	**configure router** *string* **mpls lsp** *string* **path-profile** *number*
Description	Profile ID for the specified LSP
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a list key

path-group *number*

Context	**configure router** *string* **mpls lsp** *string* **path-profile** *number*
Description	Profile ID for the specified LSP
Default	0
Introduced	16.0.R1

pce-computation *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	LSP path computation request sent to local CSPF or to PCE
Default	false
Introduced	16.0.R1

pce-control *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Control of path (delegation) to Path Computation Engine (PCE) to be used
Default	false
Introduced	16.0.R1

pce-report *keyword*

Context	**configure router** *string* **mpls lsp** *string*
Description	Global configuration of reporting to PCE to override
Options	false, true
Introduced	16.0.R1

primary [path-name] *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the primary context
Max. Elements	1
Introduced	16.0.R1

[path-name] *string*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Path name
Reference	configure **router** *string* **mpls path** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptive *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enable/disable make-before-break functionality.
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Administrative state of LSP path
Default	enable
Options	enable, disable
Introduced	16.0.R1

backup-class-type *number*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Class-type for the LSP or LSP path
Range	0 to 7
Introduced	16.0.R1

bandwidth *number*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Amount of bandwidth to be reserved.
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

bfd

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enter the bfd context
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **bfd**
Description	Enable BFD
Default	false
Introduced	16.0.R1

bfd-template *string*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **bfd**
Description	BFD template
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

lsp-ping-interval (*number* | *keyword*)

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **bfd**
Description	Interval for periodic LSP ping for BFD bootstrapping
Range	60 to 300
Default	60
Units	seconds
Options	none
Introduced	16.0.R1

class-type *number*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Class-type
Range	0 to 7
Introduced	16.0.R1

exclude-admin-group

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enter the exclude-admin-group context
Introduced	16.0.R1

group *string*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **exclude-admin-group**
Description	Groups to exclude when the LSP path is setup
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Min. Elements	1
Introduced	16.0.R1

hop-limit *number*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	The maximum number of hops that an LSP will traverse including the ingress and egress LSRs.
Range	2 to 255
Introduced	16.0.R1

include-admin-group

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enter the include-admin-group context
Introduced	16.0.R1

group *string*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **include-admin-group**
Description	Groups that are included when LSP path is setup
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Min. Elements	1
Introduced	16.0.R1

priority

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enter the priority context
Introduced	16.0.R1

hold-priority *number*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **priority**
Description	Hold priority when insufficient bandwidth is available to set up LSP
Range	0 to 7
Default	0
Introduced	16.0.R1

setup-priority *number*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string* **priority**
Description	Setup priority when insufficient bandwidth is available to set up LSP
Range	0 to 7
Default	7
Introduced	16.0.R1

record *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enable/disable recording of all hops.
Default	true
Introduced	16.0.R1

record-label *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary** *string*
Description	Enable/disable recording of labels at each node or instance.
Default	true
Introduced	16.0.R1

primary-p2mp-instance [instance-name] *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the primary-p2mp-instance context
Max. Elements	1
Introduced	16.0.R4

[instance-name] *string*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	The unique name which identifies this P2MP LSP for this virtual router.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

adaptive *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Enable/disable make-before-break functionality.
Introduced	16.0.R4

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Administrative state of LSP path
Default	enable
Options	enable, disable
Introduced	16.0.R4

bandwidth *number*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Amount of bandwidth to be reserved.
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R4

exclude-admin-group

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Enter the exclude-admin-group context
Introduced	16.0.R4

group *string*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string* **exclude-admin-group**
Description	Groups to exclude when the LSP path is setup
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Min. Elements	1
Introduced	16.0.R4

hop-limit *number*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	The maximum number of hops that an LSP will traverse including the ingress and egress LSRs.
Range	2 to 255
Introduced	16.0.R4

include-admin-group

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Enter the include-admin-group context
Introduced	16.0.R4

group *string*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string* **include-admin-group**
Description	Groups that are included when LSP path is setup
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Min. Elements	1
Introduced	16.0.R4

record *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Enable/disable recording of all hops.
Default	true
Introduced	16.0.R4

record-label *boolean*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Enable/disable recording of labels at each node or instance.
Default	true
Introduced	16.0.R4

s2l-path [path-name] *string* **to** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string*
Description	Enter the s2l-path context
Max. Elements	650
Introduced	16.0.R4

[path-name] *string*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string* **s2l-path** *string* **to** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	A label switch path (P2MP LSP) name.
Reference	configure **router** *string* **mpls path** *string*
Introduced	16.0.R4
Notes	This element is part of a list key

to (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string* **s2l-path** *string* **to** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	The IP address of the destination address of the S2L sub LSP.
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **primary-p2mp-instance** *string* **s2l-path** *string* **to** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Administratively enable/disable the P2MP S2L sub LSP.
Default	enable
Options	enable, disable
Introduced	16.0.R4

propagate-admin-group *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enable/disable admin groups via session attribute object.
Default	false
Introduced	16.0.R1

retry-limit *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Max number of attempts made to reestablish the LSP after it has failed.
Range	1 to 10000
Introduced	16.0.R1

retry-timer *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Time between attempts to reestablish the LSP after it has failed.
Range	1 to 600
Default	30
Units	seconds
Introduced	16.0.R1

revert-timer *number*

Context	**configure router** *string* **mpls lsp** *string*
Description	Revert timer for this LSP
Range	1 to 4320
Units	minutes
Introduced	16.0.R1

rsvp-resv-style *keyword*

Context	**configure router** *string* **mpls lsp** *string*
Description	Reservation style for RSVP
Default	se
Options	se, ff
Introduced	16.0.R1

secondary [path-name] *string*

Context	**configure router** *string* **mpls lsp** *string*
Description	Enter the secondary context
Max. Elements	8
Introduced	16.0.R1

[path-name] *string*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Path name
Reference	configure **router** *string* **mpls path** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptive *boolean*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Enable/disable make-before-break functionality.
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Administrative state of LSP path
Default	enable
Options	enable, disable
Introduced	16.0.R1

bandwidth *number*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Amount of bandwidth to be reserved.
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

class-type *number*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Class-type
Range	0 to 7
Introduced	16.0.R1

exclude-admin-group

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Enter the exclude-admin-group context
Introduced	16.0.R1

group *string*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string* **exclude-admin-group**
Description	Groups to exclude when the LSP path is setup
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Min. Elements	1
Introduced	16.0.R1

hop-limit *number*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	The maximum number of hops that an LSP will traverse including the ingress and egress LSRs.
Range	2 to 255
Introduced	16.0.R1

include-admin-group

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Enter the include-admin-group context
Introduced	16.0.R1

group *string*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string* **include-admin-group**
Description	Groups that are included when LSP path is setup
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Min. Elements	1
Introduced	16.0.R1

path-preference *number*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Path preference for the secondary standby path
Range	0 to 255
Default	255
Introduced	16.0.R1

priority

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Enter the priority context
Introduced	16.0.R1

hold-priority *number*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string* **priority**
Description	Hold priority when insufficient bandwidth is available to set up LSP
Range	0 to 7
Default	0
Introduced	16.0.R1

setup-priority *number*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string* **priority**
Description	Setup priority when insufficient bandwidth is available to set up LSP
Range	0 to 7
Default	7
Introduced	16.0.R1

record *boolean*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Enable/disable recording of all hops.
Default	true
Introduced	16.0.R1

record-label *boolean*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Enable/disable recording of labels at each node or instance.
Default	true
Introduced	16.0.R1

srlg *boolean*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Use SRLG constraint in secondary path computation for an LSP at the head-end LER
Default	false
Introduced	16.0.R1

standby *boolean*

Context	**configure router** *string* **mpls lsp** *string* **secondary** *string*
Description	Maintain secondary path LSP indefinitely in hot standby state
Default	false
Introduced	16.0.R1

to (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp** *string*
Description	Destination IP address or the egress router for the LSP
Introduced	16.0.R1

type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp** *string*
Description	LSP for bypass protection, point to multipoint, segment routing or MPLS-TP static LSP
Options	p2p-rsvp, p2p-static-mpls, p2p-rsvp-bypass, p2mp-rsvp, p2mp-rsvp-auto, p2p-rsvp-mesh, p2p-rsvp-one-hop, p2p-sr-te, p2p-sr-te-mesh, p2p-sr-te-one-hop, p2p-sr-te-pce-init
Introduced	16.0.R1
Notes	This element is mandatory

vprn-auto-bind *boolean*

Context	**configure router** *string* **mpls lsp** *string*
Description	Include this LSP in auto-bind for VPRN services
Introduced	16.0.R1

lsp-init-retry-timeout *number*

Context	**configure router** *string* **mpls**
Description	LSP initial retry timeout
Range	10 to 600
Default	30
Units	seconds
Introduced	16.0.R1

lsp-template [template-name] *string*

Context	**configure router** *string* **mpls**
Description	Enter the lsp-template context
Max. Elements	4096
Introduced	16.0.R1

[template-name] *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Name of the LSP template to automatically create and signal multiple LSP instances
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

adaptive *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enable/disable make-before-break functionality.
Default	true
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Administrative state of LSP template
Default	disable
Options	enable, disable
Introduced	16.0.R1

admin-tag [name] *string*

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the admin-tag context
Max. Elements	4
Introduced	16.0.R1

[name] *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **admin-tag** *string*
Description	Name of the admin tags
Reference	configure **routing-options admin-tags admin-tag** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

adspec *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enable/disable inclusion of ADSPEC objects in RSVP messages.
Default	false
Introduced	16.0.R1

auto-bandwidth

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the auto-bandwidth context
Introduced	16.0.R1

adjust-down

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Enter the adjust-down context
Introduced	16.0.R1

bw *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth adjust-down**
Description	Minimum difference in absolute bandwidth between LSP bandwidth reservation and max average data rate
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

percent *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth adjust-down**
Description	Minimum difference in percent between LSP bandwidth reservation and the maximum average data rate
Range	0 to 100
Default	5
Introduced	16.0.R1

adjust-up

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Enter the adjust-up context
Introduced	16.0.R1

bw *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth adjust-up**
Description	Minimum difference in absolute bandwidth between LSP bandwidth reservation and max average data rate
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

percent *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth adjust-up**
Description	Minimum difference in percent between LSP bandwidth reservation and the maximum average data rate
Range	0 to 100
Default	5
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Enter the fc context
Max. Elements	8
Introduced	16.0.R1

[fc-name] *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth fc** *keyword*
Description	Forwarding class name for LSP
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

sampling-weight *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth fc** *keyword*
Description	Forwarding class weight for LSP
Range	0 to 100
Default	100
Introduced	16.0.R1

max-bandwidth *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Maximum bandwidth of auto-bandwidth to request for the LSP
Range	0 to 100000
Default	100000
Units	megabps
Introduced	16.0.R1

min-bandwidth *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Minimum bandwidth of auto-bandwidth to request for the LSP
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

monitor-bandwidth *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Collect and display auto-bandwidth measurements for the LSP
Default	false
Introduced	16.0.R1

multipliers

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Enter the multipliers context
Introduced	16.0.R1

adjust-multiplier *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth multipliers**
Description	Number of collection intervals in the adjust interval
Range	1 to 16383
Introduced	16.0.R1

sample-multiplier *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth multipliers**
Description	Multiplier for collection intervals in a sample interval
Range	1 to 511
Introduced	16.0.R1

overflow-limit

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Enter the overflow-limit context
Introduced	16.0.R1

bw *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth overflow-limit**
Description	Minimum difference in absolute bandwidth between the LSP bandwidth and the sampled data rate
Range	1 to 100000
Units	megabps
Introduced	16.0.R1

number *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth overflow-limit**
Description	Number of overflow samples to trigger an overflow auto-bandwidth adjustment attempt
Range	1 to 10
Introduced	16.0.R1
Notes	This element is mandatory

threshold *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth overflow-limit**
Description	Minimum difference in percent between the LSP bandwidth and the sampled data rate
Range	0 to 100
Default	0
Introduced	16.0.R1

underflow-limit

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth**
Description	Enter the underflow-limit context
Introduced	16.0.R1

bw *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth underflow-limit**
Description	Minimum difference in absolute bandwidth between the LSP bandwidth and the sampled data rate
Range	1 to 100000
Units	megabps
Introduced	16.0.R1

number *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth underflow-limit**
Description	Number of overflow samples to trigger an overflow auto-bandwidth adjustment attempt
Range	1 to 10
Introduced	16.0.R1
Notes	This element is mandatory

threshold *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **auto-bandwidth underflow-limit**
Description	Minimum difference in percent between the LSP bandwidth and the sampled data rate
Range	0 to 100
Default	0
Introduced	16.0.R1

backup-class-type *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure backup-class-type for this LSP template.
Range	0 to 7
Default	0
Introduced	16.0.R1

bandwidth *number*

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Specify bandwidth in mbps for LSP instances created using this LSP template.
Range	0 to 100000
Default	0
Units	megabps
Introduced	16.0.R1

bfd

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the bfd context
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure router** *string* **mpls lsp-template** *string* **bfd**
Description	Enable BFD
Default	false
Introduced	16.0.R1

bfd-template *string*

Context	**configure router** *string* **mpls lsp-template** *string* **bfd**
Description	BFD template
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

failure-action *keyword*

Context	**configure router** *string* **mpls lsp-template** *string* **bfd**
Description	Indicates the action to be taken when LSP BFD session fails
Default	none
Options	none, down
Introduced	16.0.R1

lsp-ping-interval (*number* | *keyword*)

Context	**configure router** *string* **mpls lsp-template** *string* **bfd**
Description	Interval for periodic LSP ping for BFD bootstrapping
Range	60 to 300
Default	60
Units	seconds
Options	none
Introduced	16.0.R1

bgp-shortcut *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enable/disable use of RSVP LSP for IPv4 BGP routes.
Default	true
Introduced	16.0.R1

bgp-transport-tunnel *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Include/exclude use of RSVP LSP as transport LSP for labeled IPv4 BGP routes.
Default	true
Introduced	16.0.R1

class-forwarding

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the class-forwarding context
Introduced	16.0.R1

default-lsp *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **class-forwarding**
Description	Use the default LSP configuration for specified LSP or LSP template
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

fc *keyword*

Context	**configure router** *string* **mpls lsp-template** *string* **class-forwarding**
Description	One or more forwarding classes for LSP instances
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1
Notes	This element is part of a choice

forwarding-set

Context	**configure router** *string* **mpls lsp-template** *string* **class-forwarding**
Description	Enter the **forwarding-set** context
Introduced	16.0.R1

policy *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **class-forwarding forwarding-set**
Description	Name for the class based forwarding policy for LSP instances
Reference	configure **router** *string* **mpls class-forwarding-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

set *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **class-forwarding forwarding-set**
Description	Forwarding set ID
Range	1 to 6
Introduced	16.0.R1
Notes	This element is part of a choice

class-type *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure class-type.
Range	0 to 7
Default	0
Introduced	16.0.R1

cspf

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the cspf context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **cspf**
Description	Administrative state of the CSPF support for LSP
Options	enable, disable
Introduced	16.0.R1

use-te-metric *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **cspf**
Description	TE metric for the LSP path computation by CSPF
Default	false
Introduced	16.0.R1

default-path *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Specify default path to be used for signaling LSP instances created using this LSP template.
Reference	configure **router** *string* **mpls path** *string*
Introduced	16.0.R1

egress-statistics

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the egress-statistics context
Introduced	16.0.R1

accounting-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **egress-statistics**
Description	Accounting policy ID
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

collect-stats *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **egress-statistics**
Description	Collect statistics
Default	false
Introduced	16.0.R1

entropy-label *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure Entropy Label for LSP Template.
Options	false, true
Introduced	16.0.R1

exclude-admin-group *string*

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Admin group name excluded when LSP is set up
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

fast-reroute

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the fast-reroute context
Introduced	16.0.R1

frr-method *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **fast-reroute**
Description	Fast Reroute method for the LSPs that are dynamically created using this LSP template
Default	facility
Options	one-to-one, facility
Introduced	16.0.R1

hop-limit *number*

Context	**configure router** *string* **mpls lsp-template** *string* **fast-reroute**
Description	Total number of hops a detour or backup LSP can take before merging back onto the main LSP path
Range	0 to 255
Default	16
Introduced	16.0.R1

node-protect *boolean*

Context	**configure router** *string* **mpls lsp-template** *string* **fast-reroute**
Description	Enable node and link protection for the specified LSP
Default	false
Introduced	16.0.R1

propagate-admin-group *boolean*

Context	**configure router** *string* **mpls lsp-template** *string* **fast-reroute**
Description	Enable signaling of the primary LSP path admin-group constraints in the FRR object at ingress
Default	false
Introduced	16.0.R1

from (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	IP address of the ingress router for the LSP template.
Introduced	16.0.R1

hop-limit *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure maximum number of hops that can be traversed by LSP instances created using this LSP template.
Range	2 to 255
Introduced	16.0.R1

igp-shortcut

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the igp-shortcut context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **igp-shortcut**
Description	Administrative state of the RSVP LSP to be used as a shortcut while resolving IGP routes
Default	enable
Options	enable, disable
Introduced	16.0.R1

lfa-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **igp-shortcut**
Description	Specific RSVP LSP by IS-IS and OSPF routing protocols to assign as shortcut or as forwarding adjacency
Options	lfa-protect, lfa-only
Introduced	16.0.R1
Notes	This element is part of a choice

relative-metric *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **igp-shortcut**
Description	Shortest IGP cost between the endpoints of the LSP plus the configured offset
Range	-10 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

include-admin-group *string*

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Admin group name included when LSP is set up
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

ldp-over-rsvp *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure if this LSP will be included in LDP over RSVP.
Default	true
Introduced	16.0.R1

least-fill *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure use of least-fill path selection method.
Default	false
Introduced	16.0.R1

load-balancing-weight *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure load balancing weight.
Range	1 to max
Introduced	16.0.R1

main-ct-retry-limit *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Max number of attempts before switching to backup class type.
Range	1 to 10000
Introduced	16.0.R1

max-sr-labels

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the max-sr-labels context
Introduced	16.0.R1

additional-frr-labels *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **max-sr-labels**
Description	Maximum number of additional overhead labels
Range	0 to 4
Default	1
Introduced	16.0.R1

label-stack-size *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **max-sr-labels**
Description	Size for the maximum segment routing label stack
Range	1 to 11
Default	6
Introduced	16.0.R1

metric *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure LSP template metric.
Range	0 to 16777215
Default	0
Introduced	16.0.R1

pce-report *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Specifies whether to override the global configuration of reporting to PCE.
Options	false, true
Introduced	16.0.R1

priority

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enter the priority context
Introduced	16.0.R1

hold-priority *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **priority**
Description	Hold priority when insufficient bandwidth is available to set up LSP
Range	0 to 7
Default	0
Introduced	16.0.R1

setup-priority *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string* **priority**
Description	Setup priority when insufficient bandwidth is available to set up LSP
Range	0 to 7
Default	7
Introduced	16.0.R1

propagate-admin-group *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enable/disable admin groups via session attribute object.
Default	false
Introduced	16.0.R1

record *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enable/disable recording of all hops.
Default	true
Introduced	16.0.R1

record-label *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Enable/disable recording of labels at each node or instance.
Default	true
Introduced	16.0.R1

retry-limit *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Max number of attempts made to reestablish the LSP after it has failed.
Range	1 to 10000
Introduced	16.0.R1

retry-timer *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Time between attempts to reestablish the LSP after it has failed.
Range	1 to 600
Default	30
Units	seconds
Introduced	16.0.R1

template-id (*number* | *keyword*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	The value indicates lsp template-id. Configure this if LSP Template is of type p2p-sr-te-pce-init.
Range	1 to max
Options	default
Introduced	16.0.R5

type *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure type of the LSP template.
Options	p2mp-rsvp, p2p-rsvp-one-hop, p2p-rsvp-mesh, p2p-sr-te-one-hop, p2p-sr-te-mesh, p2p-sr-te-pce-init
Introduced	16.0.R1
Notes	This element is mandatory

vprn-auto-bind *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls lsp-template** *string*
Description	Configure if this LSP will be included in auto-bind for VPRN services.
Default	true
Introduced	16.0.R1

max-bypass-associations *number*

Context	**configure router** *string* **mpls**
Description	Maximum number of LSPs to be associated with a bypass tunnel
Range	100 to 131072
Default	1000
Introduced	16.0.R1

mbb-prefer-current-hops *boolean*

Context	**configure router** *string* **mpls**
Description	Select preference to use the current hops for Make-Before-Break (MBB)
Default	false
Introduced	16.0.R1

p2mp-resignal-timer *number*

Context	**configure router** *string* **mpls**
Description	Resignal timer for P2MP LSPs
Range	60 to 10080
Units	minutes
Introduced	16.0.R1

p2mp-s2l-fast-retry *number*

Context	**configure router** *string* **mpls**
Description	Fast retry timer for P2MP S2L paths
Range	1 to 10
Units	seconds
Introduced	16.0.R1

p2p-active-path-fast-retry *number*

Context	**configure router** *string* **mpls**
Description	Fast retry timer for P2P active paths
Range	1 to 10
Units	seconds
Introduced	16.0.R1

path [path-name] *string*

Context	**configure router** *string* **mpls**
Description	Enter the path context
Max. Elements	65535
Introduced	16.0.R1

[path-name] *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls path** *string*
Description	Name for this LSP path
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls path** *string*
Description	Administrative state of this tunnel
Default	disable
Options	enable, disable
Introduced	16.0.R1

hop [hop-index] *number*

Context	**configure router** *string* **mpls path** *string*
Description	Enter the hop context
Max. Elements	255
Introduced	16.0.R1

[hop-index] *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls path** *string* **hop** *number*
Description	Index to identify a particular hop
Range	1 to 1024
Introduced	16.0.R1
Notes	This element is part of a list key

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mpls path** *string* **hop** *number*
Description	IPv4 address of this hop
Introduced	16.0.R1
Notes	This element is mandatory

type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls path** *string* **hop** *number*
Description	Tunnel hop type
Options	strict, loose
Introduced	16.0.R1
Notes	This element is mandatory

pce-init-lsp

Context	**configure router** *string* **mpls**
Description	Enter the **pce-init-lsp** context
Introduced	16.0.R5

sr-te

Context	**configure router** *string* **mpls pce-init-lsp**
Description	Enter the **sr-te** context
Introduced	16.0.R5

admin-state *keyword*

Context	**configure router** *string* **mpls pce-init-lsp sr-te**
Description	Administratively enable or disable PCE initiated SR-TE LSPs.
Default	disable
Options	enable, disable
Introduced	16.0.R5

pce-report

Context	**configure router** *string* **mpls**
Description	Enter the pce-report context
Introduced	16.0.R1

rsvp-te *boolean*

Context	**configure router** *string* **mpls pce-report**
Description	Allow PCE reporting for all TE LSPs of RSVP-TE type
Default	false
Introduced	16.0.R1

sr-te *boolean*

Context	**configure router** *string* **mpls pce-report**
Description	Allow PCE reporting for all TE LSPs of SR-TE type
Default	false
Introduced	16.0.R1

resignal-timer *number*

Context	**configure router** *string* **mpls**
Description	Resignal timer for P2MP LSPs
Range	30 to 10080
Units	minutes
Introduced	16.0.R1

retry-on-igp-overload *boolean*

Context	**configure router** *string* **mpls**
Description	Tear down LSPs when IGP is in overload state
Default	false
Introduced	16.0.R1

secondary-fast-retry-timer *number*

Context	**configure router** *string* **mpls**
Description	Fast retry timer for secondary paths
Range	1 to 10
Units	seconds
Introduced	16.0.R1

shortcut-local-ttl-propagate *boolean*

Context	**configure router** *string* **mpls**
Description	Propagate TTL over LSP shortcut for local packets
Default	true
Introduced	16.0.R1

shortcut-transit-ttl-propagate *boolean*

Context	**configure router** *string* **mpls**
Description	Propagate TTL over LSP shortcut for local packets for transit packets
Default	true
Introduced	16.0.R1

srlg-database

Context	**configure router** *string* **mpls**
Description	Enter the srlg-database context
Introduced	16.0.R1

router-id [router-address] *ipv4-address*

Context	**configure router** *string* **mpls srlg-database**
Description	Enter the router-id context
Introduced	16.0.R1

[router-address] *ipv4-address*

Context	**configure router** *string* **mpls srlg-database router-id** *ipv4-address*
Description	Specifies a unique identifier of the router in the Autonomous System.
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **mpls srlg-database router-id** *ipv4-address*
Description	Administrative state of the interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

interface [interface-address] *ipv4-address* **srlg-group** *string*

Context	**configure router** *string* **mpls srlg-database router-id** *ipv4-address*
Description	Enter the interface context
Introduced	16.0.R1

[interface-address] *ipv4-address*

Context	**configure router** *string* **mpls srlg-database router-id** *ipv4-address* **interface** *ipv4-address* **srlg-group** *string*
Description	Indicates the IP address of the interface.
Introduced	16.0.R1
Notes	This element is part of a list key

srlg-group *string*

Context	**configure router** *string* **mpls srlg-database router-id** *ipv4-address* **interface** *ipv4-address* **srlg-group** *string*
Description	SRLG group name
Reference	configure **routing-options if-attribute srlg-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

srlg-frr *keyword*

Context	**configure router** *string* **mpls**
Description	Use of Shared Risk Link Group (SRLG) constraint for FRR path computation
Options	loose, strict
Introduced	16.0.R1

static-lsp [lsp-name] *string*

Context	**configure router** *string* **mpls**
Description	Enter the static-lsp context
Max. Elements	1000
Introduced	16.0.R1

[lsp-name] *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls static-lsp** *string*
Description	Labeled Switch path name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls static-lsp** *string*
Description	Administrative state of the static LSP
Default	disable
Options	enable, disable
Introduced	16.0.R1

metric *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls static-lsp** *string*
Description	MPLS static LSP metric to select an LSP
Range	1 to 16777215
Introduced	16.0.R1

push

Context	**configure router** *string* **mpls static-lsp** *string*
Description	Enter the push context
Introduced	16.0.R1

next-hop *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls static-lsp** *string* **push**
Description	IP address for the next hop
Introduced	16.0.R1
Notes	This element is mandatory

out-label (*number* | *keyword*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls static-lsp** *string* **push**
Description	Push specific label onto the top of the outgoing packet's label stack
Range	16 to 1048575
Options	implicit-null-label
Introduced	16.0.R1
Notes	This element is mandatory

to *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **mpls static-lsp** *string*
Description	Destination IP address or the egress router for the LSP
Introduced	16.0.R1

static-lsp-fast-retry *number*

Context	**configure router** *string* **mpls**
Description	Fast retry timer for static LSPs
Range	1 to 30
Default	30
Units	seconds
Introduced	16.0.R1

user-srlg-db *boolean*

Context	**configure router** *string* **mpls**
Description	Enable/disable use of user SRLG database.
Default	false
Introduced	16.0.R1

mpls-labels

Context	**configure router** *string*
Description	Enter the mpls-labels context
Introduced	16.0.R1

bgp-labels-hold-timer *number*

Context	**configure router** *string* **mpls-labels**
Description	BGP labels hold timer for the ingress router
Range	0 to 255
Default	0
Introduced	16.0.R1

reserved-label-block [label-block-name] *string*

Context	**configure router** *string* **mpls-labels**
Description	Enter the reserved-label-block context
Max. Elements	4
Introduced	16.0.R1

[label-block-name] *string*

Context	**configure router** *string* **mpls-labels reserved-label-block** *string*
Description	Name for the reserved label block
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

end-label *number*

Context	**configure router** *string* **mpls-labels reserved-label-block** *string*
Description	End label for the reserved label block
Range	18432 to 1048575
Introduced	16.0.R1

start-label *number*

Context **configure router** *string* **mpls-labels reserved-label-block** *string*

Description Start label value for the reserved label block

Range 18432 to 1048575

Introduced 16.0.R1

sr-labels

Context **configure router** *string* **mpls-labels**

Description Enter the sr-labels context

Introduced 16.0.R1

end *number*

Context **configure router** *string* **mpls-labels sr-labels**

Description End label for the SRGB

Range 32 to 1048575

Introduced 16.0.R1

start *number*

Context **configure router** *string* **mpls-labels sr-labels**

Description Start label value for the SRGB

Range 32 to 1048575

Introduced 16.0.R1

static-label-range *number*

Context **configure router** *string* **mpls-labels**

Description Static label range on the ingress router

Range 0 to 1048544

Default 18400

Introduced 16.0.R1

mss-adjust

Context	**configure router** *string*
Description	Enter the mss-adjust context
Introduced	16.0.R1

nat-group *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **mss-adjust**
Description	NAT group (including WLAN Gateway group) that executes the adjustment
Introduced	16.0.R1
Notes	This element is mandatory

segment-size *number*

Context	**configure router** *string* **mss-adjust**
Description	Intended value for the Maximum Segment Size (MSS) option in transmitted TCP SYN requests
Range	160 to 10240
Introduced	16.0.R1
Notes	This element is mandatory

mtrace2

Context	**configure router** *string*
Description	Enter the mtrace2 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **mtrace2**
Description	Administrative state of UDP based multicast traceroute tests (mstat2 and mtrace2)
Default	disable
Options	enable, disable
Introduced	16.0.R1

udp-port *number*

Context	**configure router** *string* **mtrace2**
Description	Destination UDP port for mstat2|mtrace2 test, or unsolicited mstat2|mtrace2 packets
Range	1024 to 49151
Default	5000
Introduced	16.0.R1

multicast-info-policy *string*

Context	**configure router** *string*
Description	Multicast policy name for virtual router
Reference	configure **multicast-management multicast-info-policy** *string*
Introduced	16.0.R1

nat

Context	**configure router** *string*
Description	Enter the nat context
Introduced	16.0.R1

inside

Context	**configure router** *string* **nat**
Description	Enter the inside context
Introduced	16.0.R1

l2-aware

Context	**configure router** *string* **nat inside**
Description	Enter the l2-aware context
Introduced	16.0.R1

subscribers [prefix] *ipv4-prefix-with-host-bits*

Context	**configure router** *string* **nat inside l2-aware**
Description	Enter the subscribers context
Introduced	16.0.R1

[prefix] *ipv4-prefix-with-host-bits*

Context **configure router** *string* **nat inside l2-aware subscribers** *ipv4-prefix-with-host-bits*

Description Layer-2 Aware NAT subscriber prefix

Introduced 16.0.R1

Notes This element is part of a list key

large-scale

Context **configure router** *string* **nat inside**

Description Enter the large-scale context

Introduced 16.0.R1

dnat-only

Context **configure router** *string* **nat inside large-scale**

Description Enter the dnat-only context

Introduced 16.0.R1

source-prefix-list *string*

Context **configure router** *string* **nat inside large-scale dnat-only**

Description NAT prefix list that contains source IP addresses

Reference configure **service nat prefix-list** *string*

Introduced 16.0.R1

dual-stack-lite

Context **configure router** *string* **nat inside large-scale**

Description Enter the dual-stack-lite context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite**
Description	Administrative state of Dual Stack Lite
Default	disable
Options	enable, disable
Introduced	16.0.R1

deterministic

Context	**configure router** *string* **nat inside large-scale dual-stack-lite**
Description	Enter the deterministic context
Introduced	16.0.R1

policy-map [source-prefix] *ipv6-unicast-prefix*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic**
Description	Enter the policy-map context
Introduced	16.0.R1

[source-prefix] *ipv6-unicast-prefix*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	Source prefix that adds traffic to NAT pool
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	Administrative state of this prefix
Default	disable
Options	enable, disable
Introduced	16.0.R1

map [from] *ipv6-prefix* **to** *ipv6-prefix*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	Enter the map context
Introduced	16.0.R1

[from] *ipv6-prefix*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix* **map** *ipv6-prefix* **to** *ipv6-prefix*
Description	Beginning of the range for IPv6 addresses that is mapped on the inside to outside IPv6addresses
Introduced	16.0.R1
Notes	This element is part of a list key

to *ipv6-prefix*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix* **map** *ipv6-prefix* **to** *ipv6-prefix*
Description	Ending of the range for IPv6 addresses that is mapped on the inside to outside IPv6 addresses
Introduced	16.0.R1
Notes	This element is part of a list key

first-outside-address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix* **map** *ipv6-prefix* **to** *ipv6-prefix*
Description	IPv6 address range that is mapped to outside IPv4 address
Introduced	16.0.R1
Notes	This element is mandatory

nat-policy *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	NAT policy
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

endpoint [address] *ipv6-address*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite**
Description	Enter the endpoint context
Max. Elements	128
Introduced	16.0.R1

[address] *ipv6-address*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Dual Stack Lite IPv6 address
Introduced	16.0.R1
Notes	This element is part of a list key

ip-fragmentation *keyword*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Fragmentation control of the AFTR originated downstream IPv6 traffic
Options	fragment-ipv6, fragment-ipv6-unless-ipv4-df-set
Introduced	16.0.R1

reassembly *boolean*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Reassembly of IPv6 payload datagrams
Default	false
Introduced	16.0.R1

tunnel-mtu *number*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Maximum size of IPv4 packet inside of DS-Lite tunnel
Range	512 to 9212
Default	1500
Introduced	16.0.R1

max-subscriber-limit *number*

Context	**configure router** *string* **nat inside large-scale dual-stack-lite**
Description	Largest value for all subscriber limits in each deterministic pool
Range	1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | 32768
Introduced	16.0.R1

subscriber-prefix-length *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **nat inside large-scale dual-stack-lite**
Description	IPv6 prefix length of the Dual Stack Lite subscribers
Range	32 to 64 | 128
Introduced	16.0.R1

nat-policy *string*

Context	**configure router** *string* **nat inside large-scale**
Description	NAT policy for LSN
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

nat44

Context **configure router** *string* **nat inside large-scale**

Description Enter the nat44 context

Introduced 16.0.R1

destination-prefix [ip-prefix-length] *ipv4-unicast-prefix*

Context **configure router** *string* **nat inside large-scale nat44**

Description Enter the destination-prefix context

Max. Elements 1024

Introduced 16.0.R1

[ip-prefix-length] *ipv4-unicast-prefix*

Context **configure router** *string* **nat inside large-scale nat44 destination-prefix** *ipv4-unicast-prefix*

Description Traffic sent to destinations within this prefix will be NATed

Introduced 16.0.R1

Notes This element is part of a list key

nat-policy *string*

Context **configure router** *string* **nat inside large-scale nat44 destination-prefix** *ipv4-unicast-prefix*

Description NAT policy

Reference configure **service nat nat-policy** *external-named-item*

Introduced 16.0.R1

deterministic

Context **configure router** *string* **nat inside large-scale nat44**

Description Enter the deterministic context

Introduced 16.0.R1

policy-map [source-prefix] *ipv4-unicast-prefix*

Context **configure router** *string* **nat inside large-scale nat44 deterministic**

Description Enter the policy-map context

Introduced 16.0.R1

[source-prefix] *ipv4-unicast-prefix*

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*
Description	Source prefix that adds traffic to NAT pool
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*
Description	Administrative state of this prefix
Default	disable
Options	enable, disable
Introduced	16.0.R1

map [from] *ipv4-address* **to** *ipv4-address*

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*
Description	Enter the map context
Introduced	16.0.R1

[from] *ipv4-address*

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix* **map** *ipv4-address* **to** *ipv4-address*
Description	Beginning of the range for IPv4 addresses that is mapped on the inside to outside IPv4 addresses
Introduced	16.0.R1
Notes	This element is part of a list key

to *ipv4-address*

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix* **map** *ipv4-address* **to** *ipv4-address*
Description	Ending of the range for IPv4 addresses that is mapped on the inside to outside IPv4 addresses
Introduced	16.0.R1
Notes	This element is part of a list key

first-outside-address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix* **map** *ipv4-address* **to** *ipv4-address*
Description	IPv6 address range that is mapped to outside IPv4 address
Introduced	16.0.R1
Notes	This element is mandatory

nat-policy *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*
Description	NAT policy
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

max-subscriber-limit *number*

Context	**configure router** *string* **nat inside large-scale nat44**
Description	Largest value for all subscriber limits in each deterministic pool
Range	1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | 32768
Introduced	16.0.R1

nat64

Context **configure router** *string* **nat inside large-scale**

Description Enter the nat64 context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **nat inside large-scale nat64**

Description Administrative state of NAT65

Default disable

Options enable, disable

Introduced 16.0.R1

drop-zero-ipv4-checksum *boolean*

Context **configure router** *string* **nat inside large-scale nat64**

Description Drop UDP datagrams with zero IPv4 checksum

Default false

Introduced 16.0.R1

insert-ipv6-fragment-header *boolean*

Context **configure router** *string* **nat inside large-scale nat64**

Description Include IPv6 fragment header to indicate that the sender allows fragmentation

Default false

Introduced 16.0.R1

ip-fragmentation *keyword*

Context **configure router** *string* **nat inside large-scale nat64**

Description Control fragmentation of originated downstream IPv6 traffic

Options fragment-ipv6, fragment-ipv6-unless-ipv4-df-set

Introduced 16.0.R1

ipv6-mtu *number*

Context	**configure router** *string* **nat inside large-scale nat64**
Description	Size of the IPv6 downstream packet in NAT64
Range	1280 to 9212
Default	1520
Introduced	16.0.R1

prefix *ipv6-prefix*

Context	**configure router** *string* **nat inside large-scale nat64**
Description	IPv6 prefix to derive the IPv6 address from the IPv4 address
Default	64:ff9b::/96
Introduced	16.0.R1

subscriber-prefix-length *number*

Context	**configure router** *string* **nat inside large-scale nat64**
Description	IPv6 prefix length for the NAT64 subscribers
Range	32 to 64 | 128
Introduced	16.0.R1

tos

Context	**configure router** *string* **nat inside large-scale nat64**
Description	Enter the tos context
Introduced	16.0.R1

downstream

Context	**configure router** *string* **nat inside large-scale nat64 tos**
Description	Enter the downstream context
Introduced	16.0.R4

use-ipv4 *boolean*

Context	**configure router** *string* **nat inside large-scale nat64 tos downstream**
Description	Copy TOS/DSCP bits from the incoming IPv4 frame to the outgoing IPv6 frame
Default	false
Introduced	16.0.R4

upstream

Context	**configure router** *string* **nat inside large-scale nat64 tos**
Description	Enter the upstream context
Introduced	16.0.R4

set-tos (*keyword* | *number*)

Context	**configure router** *string* **nat inside large-scale nat64 tos upstream**
Description	TOS/DSCP bits in IPv4 frame in the upstream direction
Range	0 to 255
Default	use-ipv6
Options	use-ipv6
Introduced	16.0.R4

redundancy

Context	**configure router** *string* **nat inside large-scale**
Description	Enter the redundancy context
Introduced	16.0.R1

peer *ipv4-unicast-address*

Context	**configure router** *string* **nat inside large-scale redundancy**
Description	IP address of the NAT redundancy peer for this virtual router instance
Introduced	16.0.R1

peer6 *ipv6-unicast-address*

Context **configure router** *string* **nat inside large-scale redundancy**
Description IPv6 address of the NAT redundancy peer for this virtual router instance
Introduced 16.0.R1

steering-route (*ipv4-prefix* | *ipv6-prefix*)

Context **configure router** *string* **nat inside large-scale redundancy**
Description IP address and prefix length of the steering route
Introduced 16.0.R1

subscriber-identification

Context **configure router** *string* **nat inside large-scale**
Description Enter the subscriber-identification context
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **nat inside large-scale subscriber-identification**
Description Administrative state of subscriber identification
Default disable
Options enable, disable
Introduced 16.0.R1

attribute

Context **configure router** *string* **nat inside large-scale subscriber-identification**
Description Enter the attribute context
Introduced 16.0.R1

type *keyword*

Context **configure router** *string* **nat inside large-scale subscriber-identification attribute**

Description The RADIUS Vendor-Id value corresponding with this vendor.

Default alc-sub-string

Options alc-sub-string, user-name, class, station-id, imsi, imei

Introduced 16.0.R4

vendor *keyword*

Context **configure router** *string* **nat inside large-scale subscriber-identification attribute**

Description The RADIUS Vendor

Default nokia

Options standard, nokia, 3gpp

Introduced 16.0.R4

description *string*

Context **configure router** *string* **nat inside large-scale subscriber-identification**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

drop-unidentified-traffic *boolean*

Context **configure router** *string* **nat inside large-scale subscriber-identification**

Description Drop traffic from unidentified flows

Default false

Introduced 16.0.R1

radius-proxy-server

Context **configure router** *string* **nat inside large-scale subscriber-identification**

Description Enter the radius-proxy-server context

Introduced 16.0.R1

router-instance *string*

Context	**configure router** *string* **nat inside large-scale subscriber-identification radius-proxy-server**
Description	Router instance
Introduced	16.0.R1
Notes	This element is mandatory

server *string*

Context	**configure router** *string* **nat inside large-scale subscriber-identification radius-proxy-server**
Description	Server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

map

Context	**configure router** *string* **nat**
Description	Enter the map context
Introduced	16.0.R1

map-domain [domain-name] *string*

Context	**configure router** *string* **nat map**
Description	Enter the map-domain context
Introduced	16.0.R1

[domain-name] *string*

Context	**configure router** *string* **nat map map-domain** *string*
Description	MAP domain name
Reference	configure **service nat map-t domain** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

outside

Context **configure router** *string* **nat**
Description Enter the outside context
Introduced 16.0.R1

dnat-only

Context **configure router** *string* **nat outside**
Description Enter the dnat-only context
Introduced 16.0.R1

route-limit *number*

Context **configure router** *string* **nat outside dnat-only**
Description Number that is used to limit internal routes for downstream traffic
Range 1 to 131072
Default 32768
Introduced 16.0.R1

filters

Context **configure router** *string* **nat outside**
Description Enter the filters context
Introduced 16.0.R1

downstream

Context **configure router** *string* **nat outside filters**
Description Enter the downstream context
Introduced 16.0.R1

ipv4 *string*

Context **configure router** *string* **nat outside filters downstream**
Description IP filter for downstream traffic
Reference configure **filter ip-filter** *filter-name*
Introduced 16.0.R1

ipv6 *string*

Context **configure router** *string* **nat outside filters downstream**

Description IPv6 filter for downstream traffic

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

upstream

Context **configure router** *string* **nat outside filters**

Description Enter the upstream context

Introduced 16.0.R1

ipv4 *string*

Context **configure router** *string* **nat outside filters upstream**

Description IP filter for upstream traffic

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure router** *string* **nat outside filters upstream**

Description IPv6 filter for upstream traffic

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mtu *number*

Context **configure router** *string* **nat outside**

Description MTU for downstream traffic

Range 512 to 9000

Introduced 16.0.R1

pool [name] *string*

Context	**configure router** *string* **nat outside**
Description	Enter the pool context
Max. Elements	1024
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **nat outside pool** *string*
Description	NAT pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address-range [start] *ipv4-unicast-address* **end** *ipv4-unicast-address*

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the address-range context
Max. Elements	4096
Introduced	16.0.R1

[start] *ipv4-unicast-address*

Context	**configure router** *string* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Start address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-unicast-address*

Context	**configure router** *string* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	End address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

drain *boolean*

Context	**configure router** *string* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Start or stop draining this NAT address range
Default	false
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **nat outside pool** *string*
Description	Administrative state of the outside NAT pool
Default	disable
Options	enable, disable
Introduced	16.0.R1

applications

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the applications context
Introduced	16.0.R1

agnostic *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat outside pool** *string* **applications**
Description	NAT pool to create in the outside routing context
Default	false
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **nat outside pool** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

l2-aware

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the l2-aware context
Introduced	16.0.R1

external-assignment *boolean*

Context	**configure router** *string* **nat outside pool** *string* **l2-aware**
Description	External IP address for Layer-2-aware
Default	false
Introduced	16.0.R1

large-scale

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the large-scale context
Introduced	16.0.R1

deterministic

Context	**configure router** *string* **nat outside pool** *string* **large-scale**
Description	Enter the deterministic context
Introduced	16.0.R1

port-reservation *number*

Context	**configure router** *string* **nat outside pool** *string* **large-scale deterministic**
Description	Number of ports per deterministic port-block
Range	1 to 65536
Introduced	16.0.R1

redundancy

Context	**configure router** *string* **nat outside pool** *string* **large-scale**
Description	Enter the redundancy context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **nat outside pool** *string* **large-scale redundancy**
Description	Administrative state of multi-chassis redundancy
Default	disable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

export-route *ipv4-unicast-prefix*

Context	**configure router** *string* **nat outside pool** *string* **large-scale redundancy**
Description	Route to export to the peer
Introduced	16.0.R1
Notes	This element is part of a choice

follow

Context	**configure router** *string* **nat outside pool** *string* **large-scale redundancy**
Description	Enter the **follow** context
Introduced	16.0.R1

name *string*

Context	**configure router** *string* **nat outside pool** *string* **large-scale redundancy follow**
Description	NAT pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Context	**configure router** *string* **nat outside pool** *string* **large-scale redundancy follow**
Description	The virtual router instance of the pool.
Introduced	16.0.R1
Notes	This element is part of a choice

monitor-route *ipv4-unicast-prefix*

Context	**configure router** *string* **nat outside pool** *string* **large-scale redundancy**
Description	Monitor the peer route
Introduced	16.0.R1
Notes	This element is part of a choice

subscriber-limit *number*

Context	**configure router** *string* **nat outside pool** *string* **large-scale**
Description	Maximum number of subscribers per IP address
Range	1 to 65535
Introduced	16.0.R1

mode *keyword*

Context	**configure router** *string* **nat outside pool** *string*
Description	Mode of operation of this NAT address pool
Options	auto, napt, one-to-one
Introduced	16.0.R1

nat-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat outside pool** *string*
Description	Create a NAT group
Reference	configure **isa nat-group** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

port-forwarding

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the port-forwarding context
Introduced	16.0.R1

dynamic-block-reservation *boolean*

Context	**configure router** *string* **nat outside pool** *string* **port-forwarding**
Description	Dynamic block to reserve for each subscriber with a forwarding port
Default	false
Introduced	16.0.R1

range-end *number*

Context	**configure router** *string* **nat outside pool** *string* **port-forwarding**
Description	End of the wildcard range for port forwards
Range	0 | 1023 to 65535
Introduced	16.0.R1

port-reservation

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the port-reservation context
Introduced	16.0.R1

port-blocks *number*

Context	**configure router** *string* **nat outside pool** *string* **port-reservation**
Description	Number of dynamic port blocks per outside IP address
Range	1 to 64512
Introduced	16.0.R1
Notes	This element is part of a choice

ports *number*

Context	**configure router** *string* **nat outside pool** *string* **port-reservation**
Description	Number of ports in each dynamic port block within the pool
Range	1 to 32256
Introduced	16.0.R1
Notes	This element is part of a choice

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat outside pool** *string*
Description	NAT pool type
Options	large-scale, l2-aware, wlan-gw-anchor
Introduced	16.0.R1
Notes	This element is mandatory

watermarks

Context	**configure router** *string* **nat outside pool** *string*
Description	Enter the watermarks context
Introduced	16.0.R1

high *number*

Context	**configure router** *string* **nat outside pool** *string* **watermarks**
Description	Percentage for high watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure router** *string* **nat outside pool** *string* **watermarks**
Description	Percentage for low watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **nat outside pool** *string*
Description	Create a WLAN GW group for NAT
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

network-domains

Context	**configure router** *string*
Description	Enter the network-domains context
Introduced	16.0.R4

network-domain [domain-name] *string*

Context	**configure router** *string* **network-domains**
Description	Enter the network-domain context
Max. Elements	5
Introduced	16.0.R4

[domain-name] *string*

Context	**configure router** *string* **network-domains network-domain** *string*
Description	Specifies the network-domain name.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **network-domains network-domain** *string*
Description	Specifies a description for the network-domain.
String Length	1 to 80
Introduced	16.0.R4

ospf [ospf-instance] *number*

Context	**configure router** *string*
Description	Enter the ospf context
Max. Elements	32
Introduced	16.0.R1

[ospf-instance] *number*

Context	**configure router** *string* **ospf** *number*
Description	Value for the integrated OSPF instance
Range	0 to 31
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ospf** *number*
Description	Administrative state of the OSPF instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *keyword*

Context	**configure router** *string* **ospf** *number*
Description	Allow router advertisement capabilities
Default	false
Options	false, link, area, as
Introduced	16.0.R1

advertise-tunnel-link *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Allow router advertisement capabilities
Default	false
Introduced	16.0.R1

area [area-id] *ipv4-address*

Context	**configure router** *string* **ospf** *number*
Description	Enter the area context
Introduced	16.0.R1

[area-id] *ipv4-address*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Area-ID attribute
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-router-capability *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **area-range** *ipv4-unicast-prefix*
Description	ip-prefix a.b.c.d (host bits must be 0) mask [0..32]
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **area-range** *ipv4-unicast-prefix*
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

blackhole-aggregate *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Install a low priority blackhole route to avoid loops
Default	true
Introduced	16.0.R1

database-export-exclude *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Exclude IGP link-state information of OSPF area from being exported into extended TE-DB
Default	false
Introduced	16.0.R1

export-policy *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Route that is exported as Type 3 Summary-LSAs or OSPFv3 Inter-Area-Prefix-LSA between areas
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import-policy *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Route that is imported as summary type 3/inter-area-prefix-LSA from another area into this area
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

adjacency-set [id] *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the adjacency-set context
Introduced	16.0.R1

[id] *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **adjacency-set** *string*
Description	Adjacency set identity
Reference	configure **router** *string* **ospf** *number* **segment-routing adjacency-set** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adjacency-sid

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the adjacency-sid context
Introduced	16.0.R1

label *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **adjacency-sid**
Description	Adjacency SID
Range	1 to 1048575
Introduced	16.0.R1
Notes	This element is part of a choice

admin-state *keyword*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

advertise-subnet *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Advertise point-to-point interfaces as subnet routes
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Authentication key
String Length	1 to 38
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Configure TCP authentication keychain to use for the session
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

authentication-type *keyword*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Authentication type used on OSPF interface
Options	password, message-digest
Introduced	16.0.R1

bfd-liveness

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

remain-down-on-failure *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **bfd-liveness**
Description	Force adjacency down on BFD failure and remain down until BFD session returns
Default	false
Introduced	16.0.R1

dead-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

interface-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Interface type to broadcast or point-to-point
Options	broadcast, non-broadcast, point-to-point, secondary
Introduced	16.0.R1

loopfree-alternate

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the loopfree-alternate context
Introduced	16.0.R3

exclude *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enable/disable fast re-route capability for OSPF at interface level (only valid for primary interface)
Default	false
Introduced	16.0.R3

policy-map

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enter the policy-map context
Introduced	16.0.R1

route-nh-template *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate policy-map**
Description	Route next hop policy template that is applied to interface
Reference	configure **routing-options route-next-hop-policy template** *string*
Introduced	16.0.R3
Notes	This element is mandatory

lsa-filter-out *keyword*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	LSA flooding reduction
Default	none
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Introduced	16.0.R1

message-digest-key [key-id] *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the message-digest-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **message-digest-key** *number*
Description	Message digest index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

md5 *encrypted-leaf*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **message-digest-key** *number*
Description	MD5 hash key
String Length	1 to 50
Introduced	16.0.R1

metric *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Explicit route cost metric that is applied to the interface
Range	1 to 65535
Introduced	16.0.R1

mtu *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	MTU for the OSPF to use on the interface
Range	512 to 9198
Introduced	16.0.R1

neighbor [address] *ipv4-unicast-address*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the neighbor context
Introduced	16.0.R1

[address] *ipv4-unicast-address*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **neighbor** *ipv4-unicast-address*
Description	Neighbor address
Introduced	16.0.R1
Notes	This element is part of a list key

node-sid

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the node-sid context
Introduced	16.0.R1

clear-n-flag *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **node-sid**
Description	Specifies whether the node-sid flag (N-flag) should be cleared.
Default	false
Introduced	16.0.R1

index *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **node-sid**
Description	IPvX node SID index for this interface
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

label *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **node-sid**
Description	Specifies IPvX node SID label for this interface.
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow interface to be advertised as an OSPF interface without running the OSPF protocol
Introduced	16.0.R1

poll-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between two Hello packets to a non-adjacent OSPF NBMA neighbor
Default	120
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Priority of the interface to apply in the designated router election on the subnet
Range	0 to 255
Default	1
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

rib-priority *keyword*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	RIB priority for OSPF
Options	high
Introduced	16.0.R1

sid-protection *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow adjacency SID protection by LFA and remote LFA
Default	true
Introduced	16.0.R1

transit-delay *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

loopfree-alternate-exclude *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Exclude specific interface or all interfaces participating in all OSPF areas in SPF LFA computation
Default	false
Introduced	16.0.R1

nssa

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Enter the nssa context
Introduced	16.0.R1

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa area-range** *ipv4-unicast-prefix*
Description	ip-prefix a.b.c.d (host bits must be 0) mask [0..32]
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa area-range** *ipv4-unicast-prefix*
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

originate-default-route

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Enter the originate-default-route context
Introduced	16.0.R1

adjacency-check *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Default route to remove if there is no adjacency
Default	true
Introduced	16.0.R1

type-nssa *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Generate a default route using NSSA-LSA type
Default	false
Introduced	16.0.R1

redistribute-external *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Redistribute external routes into the NSSA
Default	true
Introduced	16.0.R1

summaries *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Send summary (Type 3) LSAs into the NSSA on an ABR
Default	true
Introduced	16.0.R1

stub

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Enter the stub context
Introduced	16.0.R1

default-metric *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **stub**
Description	Metric used by the ABR for the default route into the stub area
Range	1 to 16777214
Default	1
Introduced	16.0.R1

summaries *boolean*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **stub**
Description	Send summary (Type 3) LSAs into the stub area on an ABR
Default	true
Introduced	16.0.R1

virtual-link [router-id] *ipv4-address* **transit-area** *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address*
Description	Enter the virtual-link context
Introduced	16.0.R1

[router-id] *ipv4-address*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Router identity of the virtual link neighbor
Introduced	16.0.R1
Notes	This element is part of a list key

transit-area *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Transit area that links backbone area to area without physical connection with the backbone
Reference	configure **router** *string* **ospf** *number* **area** *ipv4-address*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Authentication key
String Length	1 to 38
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Configure TCP authentication keychain to use for the session
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

authentication-type *keyword*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Authentication type used on OSPF interface
Options	password, message-digest
Introduced	16.0.R1

dead-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	60
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

message-digest-key [key-id] *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Enter the message-digest-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string* **message-digest-key** *number*
Description	Message digest index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

md5 *encrypted-leaf*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string* **message-digest-key** *number*
Description	key - [16 chars max] hash/hash2-key - [44 chars max] (for hash scheme)
String Length	1 to 50
Introduced	16.0.R4

retransmit-interval *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

transit-delay *number*

Context	**configure router** *string* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

asbr

Context	**configure router** *string* **ospf** *number*
Description	Enter the asbr context
Introduced	16.0.R1

trace-path (*number* | *keyword*)

Context	**configure router** *string* **ospf** *number* **asbr**
Description	Domain identity
Range	0 to 31
Default	none
Options	none
Introduced	16.0.R1

compatible-rfc1583 *boolean*

Context	**configure router** *string* **ospf** *number*
Description	OSPF summary and external route calculations
Default	true
Introduced	16.0.R1

database-export

Context	**configure router** *string* **ospf** *number*
Description	Enter the database-export context
Introduced	16.0.R1

bgp-ls-identifier

Context **configure router** *string* **ospf** *number* **database-export**

Description Enter the bgp-ls-identifier context

Introduced 16.0.R1

value *number*

Context **configure router** *string* **ospf** *number* **database-export bgp-ls-identifier**

Description BGP-LS identifier that is sent in the BGP-LS NLRI

Default 0

Introduced 16.0.R1

igp-identifier *number*

Context **configure router** *string* **ospf** *number* **database-export**

Description Unique identifier for the IGP instance in the BGP-LS NLRI

Introduced 16.0.R4

entropy-label

Context **configure router** *string* **ospf** *number*

Description Enter the entropy-label context

Introduced 16.0.R1

override-tunnel-elc *boolean*

Context **configure router** *string* **ospf** *number* **entropy-label**

Description Received entropy label capability advertisement to override

Default false

Introduced 16.0.R1

export-limit

Context **configure router** *string* **ospf** *number*

Description Enter the export-limit context

Introduced 16.0.R1

log-percent *number*

Context	**configure router** *string* **ospf** *number* **export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **ospf** *number* **export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

export-policy *string*

Context	**configure router** *string* **ospf** *number*
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

external-db-overflow

Context	**configure router** *string* **ospf** *number*
Description	Enter the external-db-overflow context
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **ospf** *number* **external-db-overflow**
Description	Time during which the router operates in overload
Range	0 to 2147483647
Default	0
Units	seconds
Introduced	16.0.R1

limit *number*

Context	**configure router** *string* **ospf** *number* **external-db-overflow**
Description	Number of external LSA at which overload is triggered
Range	0 to 2147483647
Default	0
Introduced	16.0.R1

external-preference *number*

Context	**configure router** *string* **ospf** *number*
Description	Preference for OSPF external routes
Range	1 to 255
Default	150
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **ospf** *number*
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure router** *string* **ospf** *number* **graceful-restart**
Description	Enable graceful restart helper for OSPF
Default	true
Introduced	16.0.R1

strict-lsa-checking *boolean*

Context	**configure router** *string* **ospf** *number* **graceful-restart**
Description	Perform strict LSA checking during graceful restart helper
Default	true
Introduced	16.0.R1

igp-shortcut

Context	**configure router** *string* **ospf** *number*
Description	Enter the igp-shortcut context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ospf** *number* **igp-shortcut**
Description	Administrative state of the IGP shortcuts
Default	disable
Options	enable, disable
Introduced	16.0.R1

tunnel-next-hop

Context	**configure router** *string* **ospf** *number* **igp-shortcut**
Description	Enter the tunnel-next-hop context
Introduced	16.0.R1

family [family-type] *keyword*

Context	**configure router** *string* **ospf** *number* **igp-shortcut tunnel-next-hop**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure router** *string* **ospf** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Address family type for tunnel next-hop
Options	ipv4, srv4
Introduced	16.0.R1
Notes	This element is part of a list key

resolution *keyword*

Context	**configure router** *string* **ospf** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Resolution state for IGP shortcut tunnels
Options	none, filter, any, match-family-ip
Introduced	16.0.R1

resolution-filter

Context	**configure router** *string* **ospf** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Enter the resolution-filter context
Introduced	16.0.R1

rsvp *boolean*

Context	**configure router** *string* **ospf** *number* **igp-shortcut tunnel-next-hop family** *keyword* **resolution-filter**
Description	Use RSVP tunneling for next-hop resolution
Default	false
Introduced	16.0.R1

sr-te *boolean*

Context	**configure router** *string* **ospf** *number* **igp-shortcut tunnel-next-hop family** *keyword* **resolution-filter**
Description	Use SR-TE tunneling for next-hop resolution
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **ospf** *number*
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

ldp-over-rsvp *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Allow LSP over RSVP in this OSPF instance
Default	false
Introduced	16.0.R1

ldp-sync *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Use IGP-LDP synchronization feature on all interfaces participating in routing protocol
Default	true
Introduced	16.0.R1

loopfree-alternate

Context	**configure router** *string* **ospf** *number*
Description	Enter the loopfree-alternate context
Introduced	16.0.R1

exclude

Context	**configure router** *string* **ospf** *number* **loopfree-alternate**
Description	Enter the exclude context
Introduced	16.0.R3

prefix-policy *string*

Context	**configure router** *string* **ospf** *number* **loopfree-alternate exclude**
Description	Loopfree Alternative (LFA) exclude policies from which prefixes are excluded. Prefixes excluded from LFA this way will not be used in the LFA calculation, regardless of their priority.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is ordered by user

remote-lfa

Context	**configure router** *string* **ospf** *number* **loopfree-alternate**
Description	Enter the remote-lfa context
Introduced	16.0.R1

max-pq-cost *number*

Context	**configure router** *string* **ospf** *number* **loopfree-alternate remote-lfa**
Description	Maximum cost of a destination node during reverse SPF calculation
Default	65535
Introduced	16.0.R1

node-protect

Context	**configure router** *string* **ospf** *number* **loopfree-alternate remote-lfa**
Description	Enter the node-protect context
Introduced	16.0.R1

max-pq-nodes *number*

Context	**configure router** *string* **ospf** *number* **loopfree-alternate remote-lfa node-protect**
Description	Specifies the maximum number of PQ nodes.
Range	1 to 32
Default	16
Introduced	16.0.R4

ti-lfa

Context	**configure router** *string* **ospf** *number* **loopfree-alternate**
Description	Enter the ti-lfa context
Introduced	16.0.R1

max-sr-frr-labels *number*

Context	**configure router** *string* **ospf** *number* **loopfree-alternate ti-lfa**
Description	Maximum number of labels that TI-LFA backup next hop can use
Range	0 to 3
Default	2
Introduced	16.0.R1

node-protect

Context	**configure router** *string* **ospf** *number* **loopfree-alternate ti-lfa**
Description	Enter the node-protect context
Introduced	16.0.R1

multicast-import *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Submit routes into the multicast Route Table Manager
Default	false
Introduced	16.0.R1

overload *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Change overload state of the local router to appear to be overloaded
Default	false
Introduced	16.0.R1

overload-include-ext-2 *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Advertise external type-2 routes with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-include-stub *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Advertise all stub interfaces with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-on-boot

Context	**configure router** *string* **ospf** *number*
Description	Enter the overload-on-boot context
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ospf** *number* **overload-on-boot**
Description	Time during which the router operates in overload state before reestablishing normal operations
Range	1 to 1800
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure router** *string* **ospf** *number*
Description	Preference for OSPF internal routes
Range	1 to 255
Default	10
Introduced	16.0.R1

reference-bandwidth *number*

Context	**configure router** *string* **ospf** *number*
Description	Bandwidth to reference the default costing of interfaces
Range	1 to 4000000000
Default	100000000
Units	kilobps
Introduced	16.0.R1

rib-priority

Context	**configure router** *string* **ospf** *number*
Description	Enter the rib-priority context
Introduced	16.0.R1

high

Context	**configure router** *string* **ospf** *number* **rib-priority**
Description	Enter the high context
Introduced	16.0.R1

prefix-list *string*

Context	**configure router** *string* **ospf** *number* **rib-priority high**
Description	List used to select routes processed at higher priority through OSPF route calculation process
Reference	configure **policy-options prefix-list** *string*
Introduced	16.0.R1

router-id *router-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf** *number*
Description	Unique router ID for OSPF instance
Introduced	16.0.R1

rtr-adv-lsa-limit

Context	**configure router** *string* **ospf** *number*
Description	Enter the rtr-adv-lsa-limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **ospf** *number* **rtr-adv-lsa-limit**
Description	Log the event, without triggering overload
Default	false
Introduced	16.0.R1

max-lsa-count *number*

Context	**configure router** *string* **ospf** *number* **rtr-adv-lsa-limit**
Description	Maximum number of LSAs allowed to be advertised by one router
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

overload-timeout (*number* | *keyword*)

Context	**configure router** *string* **ospf** *number* **rtr-adv-lsa-limit**
Description	Maximum timeout for overload when the maximum LSA count is reached
Default	forever
Introduced	16.0.R1

warning-threshold *number*

Context	**configure router** *string* **ospf** *number* **rtr-adv-lsa-limit**
Description	Percentage of the maximum LSA count at which a warning is given
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R1

segment-routing

Context	**configure router** *string* **ospf** *number*
Description	Enter the segment-routing context
Introduced	16.0.R1

adj-sid-hold (*number* | *keyword*)

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Adjacency SID hold time
Default	15
Units	seconds
Introduced	16.0.R1

adjacency-set [id] *number*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Enter the adjacency-set context
Introduced	16.0.R1

[id] *number*

Context	**configure router** *string* **ospf** *number* **segment-routing adjacency-set** *number*
Description	Non-zero identifier for a given adjacency set
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure router** *string* **ospf** *number* **segment-routing adjacency-set** *number*
Description	Advertise the adjacency set when all links terminate on the same neighboring node
Default	true
Introduced	16.0.R1

parallel *boolean*

Context	**configure router** *string* **ospf** *number* **segment-routing adjacency-set** *number*
Description	Require all members of the adjacency set to terminate on the same neighboring node
Default	true
Introduced	16.0.R1

sid

Context	**configure router** *string* **ospf** *number* **segment-routing adjacency-set** *number*
Description	Enter the sid context
Introduced	16.0.R1

label *number*

Context	**configure router** *string* **ospf** *number* **segment-routing adjacency-set** *number* **sid**
Description	Adjacency SID
Range	1 to 1048575
Introduced	16.0.R1
Notes	This element is part of a choice

admin-state *keyword*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Administrative state of segment routing
Default	disable
Options	enable, disable
Introduced	16.0.R1

backup-node-sid

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Enter the backup-node-sid context
Introduced	16.0.R1

index *number*

Context	**configure router** *string* **ospf** *number* **segment-routing backup-node-sid**
Description	IPvX node SID index for this interface
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

ip-prefix *ipv4-unicast-prefix*

Context	**configure router** *string* **ospf** *number* **segment-routing backup-node-sid**
Description	IP prefix and prefix length for the backup-node-sid
Introduced	16.0.R1

label *number*

Context	**configure router** *string* **ospf** *number* **segment-routing backup-node-sid**
Description	Specifies IPvX node SID label for this interface.
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

entropy-label *boolean*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Entropy label capability
Default	true
Introduced	16.0.R1

export-tunnel-table *keyword*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Export tunnel table
Options	ldp
Introduced	16.0.R1

mapping-server

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Enter the mapping-server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server**
Description	Administrative state of the OSPF segment routing mapping server
Default	disable
Options	enable, disable
Introduced	16.0.R1

node-sid-map [sid-index] *number*

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server**
Description	Enter the node-sid-map context
Introduced	16.0.R1

[sid-index] *number*

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Start SID index for the node SID mapping
Introduced	16.0.R1
Notes	This element is part of a list key

ip-prefix *ipv4-prefix*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Starting prefix of the mapping
Introduced	16.0.R1
Notes	This element is mandatory

range *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Number of prefixes to be mapped by the Extended Range Prefix TLV
Range	1 to 65535
Default	1
Introduced	16.0.R1

scope

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server node-sid-map** *number*
Description	Enter the scope context
Introduced	16.0.R1

area *string*

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server node-sid-map** *number* **scope**
Description	Area ID in which the advertise Extended Range TLV is advertised
Reference	configure **router** *string* **ospf** *number* **area** *ipv4-address*
Introduced	16.0.R1
Notes	This element is part of a choice

as

Context	**configure router** *string* **ospf** *number* **segment-routing mapping-server node-sid-map** *number* **scope**
Description	Advertise Extended Range TLV in whole autonomous system
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-sid-range

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Enter the prefix-sid-range context
Introduced	16.0.R1

global

Context	**configure router** *string* **ospf** *number* **segment-routing prefix-sid-range**
Description	Use global SR range
Introduced	16.0.R1
Notes	This element is part of a choice

max-index *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf** *number* **segment-routing prefix-sid-range**
Description	Maximum local SID index
Range	1 to 524287
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

start-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf** *number* **segment-routing prefix-sid-range**
Description	Value for the local label starting offset
Range	0 to 524287
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

srlb *string*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Routing local block
Reference	configure **router** *string* **mpls-labels reserved-label-block** *string*
Introduced	16.0.R1

tunnel-mtu *number*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Tunnel MTU size
Range	512 to 9198
Introduced	16.0.R1

tunnel-table-pref *number*

Context	**configure router** *string* **ospf** *number* **segment-routing**
Description	Preference of SR tunnels created by the IGP instance
Range	1 to 255
Default	10
Introduced	16.0.R1

timers

Context	**configure router** *string* **ospf** *number*
Description	Enter the timers context
Introduced	16.0.R1

incremental-spf-wait *number*

Context	**configure router** *string* **ospf** *number* **timers**
Description	Delay time before an incremental SPF calculation is started
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-accumulate *number*

Context	**configure router** *string* **ospf** *number* **timers**
Description	Delay time for accumulating multiple LSAs before advertising them to neighbors
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-arrival *number*

Context	**configure router** *string* **ospf** *number* **timers**
Description	Minimum delay between receipt of the same LSAs arriving from neighbors
Range	0 to 600000
Default	1000
Introduced	16.0.R1

lsa-generate

Context	**configure router** *string* **ospf** *number* **timers**
Description	Enter the lsa-generate context
Introduced	16.0.R1

lsa-initial-wait *number*

Context	**configure router** *string* **ospf** *number* **timers lsa-generate**
Description	First waiting period between link state advertisements LSA originates
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

lsa-second-wait *number*

Context	**configure router** *string* **ospf** *number* **timers lsa-generate**
Description	Hold time between the first and second LSA generation
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

max-lsa-wait *number*

Context	**configure router** *string* **ospf** *number* **timers lsa-generate**
Description	Maximum time between two consecutive occurrences of an LSA being generated
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

redistribute-delay *number*

Context	**configure router** *string* **ospf** *number* **timers**
Description	Hold down timer for external routes that are redistributed in OSPF
Range	0 to 1000
Default	1000
Introduced	16.0.R1

spf-wait

Context	**configure router** *string* **ospf** *number* **timers**
Description	Enter the spf-wait context
Introduced	16.0.R1

spf-initial-wait *number*

Context	**configure router** *string* **ospf** *number* **timers spf-wait**
Description	Initial SPF calculation delay after a topology change
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-max-wait *number*

Context	**configure router** *string* **ospf** *number* **timers spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	10 to 120000
Default	10000
Units	milliseconds
Introduced	16.0.R1

spf-second-wait *number*

Context	**configure router** *string* **ospf** *number* **timers spf-wait**
Description	Hold time between the first and second SPF calculation
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

traffic-engineering *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Calculate traffic engineering route
Default	false
Introduced	16.0.R1

unicast-import *boolean*

Context	**configure router** *string* **ospf** *number*
Description	Submit routes into the unicast Route Table Manager
Default	true
Introduced	16.0.R1

ospf3 [ospf-instance] *number*

Context	**configure router** *string*
Description	Enter the ospf3 context
Max. Elements	32
Introduced	16.0.R1

[ospf-instance] *number*

Context	**configure router** *string* **ospf3** *number*
Description	Value for the integrated OSPF instance
Range	0 to 31 | 64 to 95
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ospf3** *number*
Description	Administrative state of the OSPF instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *keyword*

Context	**configure router** *string* **ospf3** *number*
Description	Allow router advertisement capabilities
Default	false
Options	false, link, area, as
Introduced	16.0.R1

area [area-id] *ipv4-address*

Context	**configure router** *string* **ospf3** *number*
Description	Enter the area context
Introduced	16.0.R1

[area-id] *ipv4-address*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Area-ID attribute
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-router-capability *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

area-range [ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Address ranges to create on an ABR for route summarization or suppression
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

blackhole-aggregate *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Install a low priority blackhole route to avoid loops
Default	true
Introduced	16.0.R1

database-export-exclude *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Exclude IGP link-state information of OSPF area from being exported into extended TE-DB
Default	false
Introduced	16.0.R1

export-policy *string*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Route that is exported as Type 3 Summary-LSAs or OSPFv3 Inter-Area-Prefix-LSA between areas
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

extended-lsa *keyword*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Extended LSA format in an OSPFv3 area
Options	only
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Route that is imported as summary type 3/inter-area-prefix-LSA from another area into this area
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

bfd-liveness

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

remain-down-on-failure *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **bfd-liveness**
Description	Force adjacency down on BFD failure and remain down until BFD session returns
Default	false
Introduced	16.0.R1

dead-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

interface-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Interface type to broadcast or point-to-point
Options	broadcast, non-broadcast, point-to-point, secondary
Introduced	16.0.R1

loopfree-alternate

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the loopfree-alternate context
Introduced	16.0.R3

exclude *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enable/disable fast re-route capability for OSPF at interface level (only valid for primary interface)
Default	false
Introduced	16.0.R3

policy-map

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enter the policy-map context
Introduced	16.0.R1

route-nh-template *string*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate policy-map**
Description	Route next hop policy template that is applied to interface
Reference	configure **routing-options route-next-hop-policy template** *string*
Introduced	16.0.R3
Notes	This element is mandatory

lsa-filter-out *keyword*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	LSA flooding reduction
Default	none
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Introduced	16.0.R1

metric *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Explicit route cost metric that is applied to the interface
Range	1 to 65535
Introduced	16.0.R1

mtu *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	MTU for the OSPF to use on the interface
Range	512 to 9198
Introduced	16.0.R1

neighbor [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the neighbor context
Introduced	16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **neighbor** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Neighbor link local address
Introduced	16.0.R1
Notes	This element is part of a list key

node-sid

Context **configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Enter the node-sid context

Introduced 16.0.R1

clear-n-flag *boolean*

Context **configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **node-sid**

Description

Default false

Introduced 16.0.R1

index *number*

Context **configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **node-sid**

Description IPvX node SID index for this interface

Range 0 to 4294967295

Introduced 16.0.R1

Notes This element is part of a choice

label *number*

Context **configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **node-sid**

Description IPvX node SID index for this interface

Range 1 to 4294967295

Introduced 16.0.R4

Notes This element is part of a choice

passive *boolean*

Context **configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Allow interface to be advertised as an OSPF interface without running the OSPF protocol

Introduced 16.0.R1

poll-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between two Hello packets to a non-adjacent OSPF NBMA neighbor
Default	120
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Priority of the interface to apply in the designated router election on the subnet
Range	0 to 255
Default	1
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

rib-priority *keyword*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	RIB priority for OSPF
Options	high
Introduced	16.0.R1

sid-protection *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow adjacency SID protection by LFA and remote LFA
Default	true
Introduced	16.0.R1

transit-delay *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

key-rollover-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Key rollover interval
Range	10 to 300
Default	10
Units	seconds
Introduced	16.0.R1

loopfree-alternate-exclude *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Exclude specific interface or all interfaces participating in all OSPF areas in SPF LFA computation
Default	false
Introduced	16.0.R1

nssa

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Enter the nssa context
Introduced	16.0.R1

area-range [ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Address ranges to create on an ABR for route summarization or suppression
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

originate-default-route

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Enter the originate-default-route context
Introduced	16.0.R1

adjacency-check *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Default route to remove if there is no adjacency
Default	true
Introduced	16.0.R1

type-nssa *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Generate a default route using NSSA-LSA type
Default	false
Introduced	16.0.R1

redistribute-external *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Redistribute external routes into the NSSA
Default	true
Introduced	16.0.R1

summaries *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Send summary (Type 3) LSAs into the NSSA on an ABR
Default	true
Introduced	16.0.R1

stub

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Enter the stub context
Introduced	16.0.R1

default-metric *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **stub**
Description	Metric used by the ABR for the default route into the stub area
Range	1 to 16777214
Default	1
Introduced	16.0.R1

summaries *boolean*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **stub**
Description	Send summary (Type 3) LSAs into the stub area on an ABR
Default	true
Introduced	16.0.R1

virtual-link [router-id] *ipv4-address* **transit-area** *string*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address*
Description	Enter the virtual-link context
Introduced	16.0.R1

[router-id] *ipv4-address*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Router ID of the virtual link neighbor
Introduced	16.0.R1
Notes	This element is part of a list key

transit-area *string*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Transit area that links backbone area to area without physical connection with the backbone
Reference	configure **router** *string* **ospf3** *number* **area** *ipv4-address*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

dead-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	60
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

transit-delay *number*

Context	**configure router** *string* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

asbr

Context	**configure router** *string* **ospf3** *number*
Description	Enter the asbr context
Introduced	16.0.R1

database-export

Context	**configure router** *string* **ospf3** *number*
Description	Enter the database-export context
Introduced	16.0.R1

bgp-ls-identifier

Context	**configure router** *string* **ospf3** *number* **database-export**
Description	Enter the bgp-ls-identifier context
Introduced	16.0.R1

value *number*

Context	**configure router** *string* **ospf3** *number* **database-export bgp-ls-identifier**
Description	BGP-LS identifier that is sent in the BGP-LS NLRI
Default	0
Introduced	16.0.R1

igp-identifier *number*

Context	**configure router** *string* **ospf3** *number* **database-export**
Description	Specifies the value of the unique identifier of the IGP instance in the BGP-LS NLRI.
Introduced	16.0.R4

export-limit

Context	**configure router** *string* **ospf3** *number*
Description	Enter the export-limit context
Introduced	16.0.R1

log-percent *number*

Context	**configure router** *string* **ospf3** *number* **export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R1

number *number*

Context	**configure router** *string* **ospf3** *number* **export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

export-policy *string*

Context	**configure router** *string* **ospf3** *number*
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

extended-lsa *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf3** *number*
Description	Extended LSA format in an OSPFv3 area
Default	sparse
Options	sparse, only
Introduced	16.0.R1

external-db-overflow

Context	**configure router** *string* **ospf3** *number*
Description	Enter the external-db-overflow context
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **ospf3** *number* **external-db-overflow**
Description	Time during which the router operates in overload
Range	0 to 2147483647
Default	0
Units	seconds
Introduced	16.0.R1

limit *number*

Context	**configure router** *string* **ospf3** *number* **external-db-overflow**
Description	Number of external LSA at which overload is triggered
Range	0 to 2147483647
Default	0
Introduced	16.0.R1

external-preference *number*

Context	**configure router** *string* **ospf3** *number*
Description	Preference for OSPF external routes
Range	1 to 255
Default	150
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **ospf3** *number*
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure router** *string* **ospf3** *number* **graceful-restart**
Description	Enable graceful restart helper for OSPF
Default	true
Introduced	16.0.R1

strict-lsa-checking *boolean*

Context	**configure router** *string* **ospf3** *number* **graceful-restart**
Description	Perform strict LSA checking during graceful restart helper
Default	true
Introduced	16.0.R1

igp-shortcut

Context	**configure router** *string* **ospf3** *number*
Description	Enter the igp-shortcut context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **ospf3** *number* **igp-shortcut**
Description	Administrative state of the IGP shortcuts
Default	disable
Options	enable, disable
Introduced	16.0.R1

tunnel-next-hop

Context	**configure router** *string* **ospf3** *number* **igp-shortcut**
Description	Enter the tunnel-next-hop context
Introduced	16.0.R1

family [family-type] *keyword*

Context	**configure router** *string* **ospf3** *number* **igp-shortcut tunnel-next-hop**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure router** *string* **ospf3** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Specifies the address family for tunnel next hop.
Options	ipv4, ipv6, srv4, srv6
Introduced	16.0.R1
Notes	This element is part of a list key

resolution *keyword*

Context	**configure router** *string* **ospf3** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Resolution state for IGP shortcut tunnels
Options	none, filter, any, match-family-ip
Introduced	16.0.R1

resolution-filter

Context	**configure router** *string* **ospf3** *number* **igp-shortcut tunnel-next-hop family** *keyword*
Description	Enter the resolution-filter context
Introduced	16.0.R1

rsvp *boolean*

Context	**configure router** *string* **ospf3** *number* **igp-shortcut tunnel-next-hop family** *keyword* **resolution-filter**
Description	Use RSVP tunneling for next-hop resolution
Default	false
Introduced	16.0.R1

sr-te *boolean*

Context	**configure router** *string* **ospf3** *number* **igp-shortcut tunnel-next-hop family** *keyword* **resolution-filter**
Description	Use SR-TE tunneling for next-hop resolution
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure router** *string* **ospf3** *number*
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

ldp-sync *boolean*

Context	**configure router** *string* **ospf3** *number*
Description	Use IGP-LDP synchronization feature on all interfaces participating in routing protocol
Default	true
Introduced	16.0.R1

loopfree-alternate

Context	**configure router** *string* **ospf3** *number*
Description	Enter the loopfree-alternate context
Introduced	16.0.R1

exclude

Context	**configure router** *string* **ospf3** *number* **loopfree-alternate**
Description	Enter the exclude context
Introduced	16.0.R3

prefix-policy *string*

Context	**configure router** *string* **ospf3** *number* **loopfree-alternate exclude**
Description	Loopfree Alternative (LFA) exclude policies from which prefixes are excluded. Prefixes excluded from LFA this way will not be used in the LFA calculation, regardless of their priority.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is ordered by user

remote-lfa

Context	**configure router** *string* **ospf3** *number* **loopfree-alternate**
Description	Enter the remote-lfa context
Introduced	16.0.R1

max-pq-cost *number*

Context	**configure router** *string* **ospf3** *number* **loopfree-alternate remote-lfa**
Description	Maximum cost of a destination node during reverse SPF calculation
Default	65535
Introduced	16.0.R1

ti-lfa

Context	**configure router** *string* **ospf3** *number* **loopfree-alternate**
Description	Enter the ti-lfa context
Introduced	16.0.R1

max-sr-frr-labels *number*

Context	**configure router** *string* **ospf3** *number* **loopfree-alternate ti-lfa**
Description	Maximum number of labels that TI-LFA backup next hop can use
Range	0 to 3
Default	2
Introduced	16.0.R1

multicast-import *boolean*

Context	**configure router** *string* **ospf3** *number*
Description	Submit routes into the multicast Route Table Manager
Default	false
Introduced	16.0.R1

overload *boolean*

Context	**configure router** *string* **ospf3** *number*
Description	Change overload state of the local router to appear to be overloaded
Default	false
Introduced	16.0.R1

overload-include-ext-2 *boolean*

Context	**configure router** *string* **ospf3** *number*
Description	Advertise external type-2 routes with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-include-stub *boolean*

Context	**configure router** *string* **ospf3** *number*
Description	Advertise all stub interfaces with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-on-boot

Context	**configure router** *string* **ospf3** *number*
Description	Enter the overload-on-boot context
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **ospf3** *number* **overload-on-boot**
Description	Time during which the router operates in overload state before reestablishing normal operations
Range	60 to 1800
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure router** *string* **ospf3** *number*
Description	Preference for OSPF internal routes
Range	1 to 255
Default	10
Introduced	16.0.R1

reference-bandwidth *number*

Context	**configure router** *string* **ospf3** *number*
Description	Bandwidth to reference the default costing of interfaces
Range	1 to 4000000000
Default	100000000
Units	kilobps
Introduced	16.0.R1

rib-priority

Context	**configure router** *string* **ospf3** *number*
Description	Enter the rib-priority context
Introduced	16.0.R1

high

Context	**configure router** *string* **ospf3** *number* **rib-priority**
Description	Enter the high context
Introduced	16.0.R1

prefix-list *string*

Context	**configure router** *string* **ospf3** *number* **rib-priority high**
Description	List used to select routes processed at higher priority through OSPF route calculation process
Reference	configure **policy-options prefix-list** *string*
Introduced	16.0.R1

router-id *router-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf3** *number*
Description	Unique router ID for OSPF instance
Introduced	16.0.R1

rtr-adv-lsa-limit

Context	**configure router** *string* **ospf3** *number*
Description	Enter the rtr-adv-lsa-limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure router** *string* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Log the event, without triggering overload
Default	false
Introduced	16.0.R1

max-lsa-count *number*

Context	**configure router** *string* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Maximum number of LSAs allowed to be advertised by one router
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

overload-timeout (*number* | *keyword*)

Context	**configure router** *string* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Maximum timeout for overload when the maximum LSA count is reached
Default	forever
Introduced	16.0.R1

warning-threshold *number*

Context	**configure router** *string* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Percentage of the maximum LSA count at which a warning is given
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R1

segment-routing

Context	**configure router** *string* **ospf3** *number*
Description	Enter the segment-routing context
Introduced	16.0.R1

adj-sid-hold (*number* | *keyword*)

Context **configure router** *string* **ospf3** *number* **segment-routing**

Description Adjacency SID hold time

Default 15

Units seconds

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **ospf3** *number* **segment-routing**

Description Administrative state of segment routing

Default disable

Options enable, disable

Introduced 16.0.R1

prefix-sid-range

Context **configure router** *string* **ospf3** *number* **segment-routing**

Description Enter the prefix-sid-range context

Introduced 16.0.R1

global

Context **configure router** *string* **ospf3** *number* **segment-routing prefix-sid-range**

Description Use global SR range

Introduced 16.0.R1

Notes This element is part of a choice

max-index *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf3** *number* **segment-routing prefix-sid-range**
Description	Maximum local SID index
Range	1 to 524287
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

start-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **ospf3** *number* **segment-routing prefix-sid-range**
Description	Value for the local label starting offset
Range	0 to 524287
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

tunnel-mtu *number*

Context	**configure router** *string* **ospf3** *number* **segment-routing**
Description	Tunnel MTU size
Range	512 to 9198
Introduced	16.0.R1

tunnel-table-pref *number*

Context	**configure router** *string* **ospf3** *number* **segment-routing**
Description	Preference of SR tunnels created by the IGP instance
Range	1 to 255
Default	10
Introduced	16.0.R1

timers

Context	**configure router** *string* **ospf3** *number*
Description	Enter the timers context
Introduced	16.0.R1

incremental-spf-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers**
Description	Delay time before an incremental SPF calculation is started
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-accumulate *number*

Context	**configure router** *string* **ospf3** *number* **timers**
Description	Delay time for accumulating multiple LSAs before advertising them to neighbors
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-arrival *number*

Context	**configure router** *string* **ospf3** *number* **timers**
Description	Minimum delay between receipt of the same LSAs arriving from neighbors
Range	0 to 600000
Default	1000
Introduced	16.0.R1

lsa-generate

Context	**configure router** *string* **ospf3** *number* **timers**
Description	Enter the lsa-generate context
Introduced	16.0.R1

lsa-initial-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers lsa-generate**
Description	First waiting period between link state advertisements LSA originates
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

lsa-second-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers lsa-generate**
Description	Hold time between the first and second LSA generation
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

max-lsa-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers lsa-generate**
Description	Maximum time between two consecutive occurrences of an LSA being generated
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

redistribute-delay *number*

Context	**configure router** *string* **ospf3** *number* **timers**
Description	Hold down timer for external routes that are redistributed in OSPF
Range	0 to 1000
Default	1000
Introduced	16.0.R1

spf-wait

Context	**configure router** *string* **ospf3** *number* **timers**
Description	Enter the spf-wait context
Introduced	16.0.R1

spf-initial-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers spf-wait**
Description	Initial SPF calculation delay after a topology change
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-max-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	10 to 120000
Default	10000
Units	milliseconds
Introduced	16.0.R1

spf-second-wait *number*

Context	**configure router** *string* **ospf3** *number* **timers spf-wait**
Description	Hold time between the first and second SPF calculation
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

unicast-import *boolean*

Context	**configure router** *string* **ospf3** *number*
Description	Submit routes into the unicast Route Table Manager
Default	true
Introduced	16.0.R1

pcep

Context	**configure router** *string*
Description	Enter the pcep context
Introduced	16.0.R1

pcc

Context	**configure router** *string* **pcep**
Description	Enter the pcc context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pcep pcc**
Description	Administrative state
Default	disable
Options	enable, disable
Introduced	16.0.R1

dead-timer *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pcc**
Description	Configure dead timer
Range	1 to 255
Default	120
Units	seconds
Introduced	16.0.R1

keepalive *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pcc**
Description	Configure keepalive
Range	1 to 255
Default	30
Units	seconds
Introduced	16.0.R1

local-address *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pcc**
Description	Configure local IP
Introduced	16.0.R1

max-srte-pce-init-lsps *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pcc**
Description	Configure max sr te pce init LSP
Range	0 to 8191
Default	8191
Introduced	16.0.R5

peer [ip-address] *ipv4-unicast-address*

Context	**configure router** *string* **pcep pcc**
Description	Enter the peer context
Max. Elements	2
Introduced	16.0.R1

[ip-address] *ipv4-unicast-address*

Context	**configure router** *string* **pcep pcc peer** *ipv4-unicast-address*
Description	This value specifies the address of the PCE peer
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **pcep pcc peer** *ipv4-unicast-address*
Description	Administrative state of PCC peer
Default	disable
Options	enable, disable
Introduced	16.0.R1

preference *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **pcep pcc peer** *ipv4-unicast-address*
Description	The value indicates the preference value of this peer. If higher preference PCE is unavailable or not connected, PCE with the next preference is used.
Range	0 to 100
Default	0
Introduced	16.0.R1

redelegation-timer *number*

Context	**configure router** *string* **pcep pcc**
Description	Configure redelegation-timer
Range	1 to 3600
Default	90
Units	seconds
Introduced	16.0.R1

report-path-constraints *boolean*

Context	**configure router** *string* **pcep pcc**
Description	Specify whether to enable/disable path constraints in PCC report
Default	true
Introduced	16.0.R1

state-timer

Context	**configure router** *string* **pcep pcc**
Description	Enter the state-timer context
Introduced	16.0.R1

timer *number*

Context	**configure router** *string* **pcep pcc state-timer**
Description	Configure state-timer
Range	1 to 3600
Default	180
Units	seconds
Introduced	16.0.R1

timer-action *keyword*

Context	**configure router** *string* **pcep pcc state-timer**
Description	State timer action remove/none
Default	remove
Options	none, remove
Introduced	16.0.R1

unknown-message-rate *number*

Context	**configure router** *string* **pcep pcc**
Description	Configure unknown message rate
Range	1 to 255
Default	10
Introduced	16.0.R1

pce

Context	**configure router** *string* **pcep**
Description	Enter the pce context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pcep pce**
Description	Administrative state
Default	disable
Options	enable, disable
Introduced	16.0.R1

dead-timer *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pce**
Description	Configure dead timer
Range	1 to 255
Default	120
Units	seconds
Introduced	16.0.R1

keepalive *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pce**
Description	Configure keepalive
Range	1 to 255
Default	30
Units	seconds
Introduced	16.0.R1

local-address *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **pcep pce**
Description	Configure local IP
Introduced	16.0.R1

unknown-message-rate *number*

Context	**configure router** *string* **pcep pce**
Description	Configure unknown message rate
Range	1 to 255
Default	10
Introduced	16.0.R1

pcp

Context	**configure router** *string*
Description	Enter the pcp context
Introduced	16.0.R1

server [name] *string*

Context	**configure router** *string* **pcp**
Description	Enter the server context
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **pcp server** *string*
Description	PCP server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **pcp server** *string*
Description	Administrative state of this PCP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **pcp server** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dual-stack-lite-address *ipv6-unicast-address*

Context	**configure router** *string* **pcp server** *string*
Description	Inside Dual Stack Lite AFTR address
Introduced	16.0.R1

fwd-inside-router *string*

Context	**configure router** *string* **pcp server** *string*
Description	PCP forwarding inside virtual router instance
Introduced	16.0.R1

interface [name] *string*

Context	**configure router** *string* **pcp server** *string*
Description	Enter the interface context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **pcp server** *string* **interface** *string*
Description	Interface name
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

policy *string*

Context	**configure router** *string* **pcp server** *string*
Description	PCP server policy
Reference	configure **service nat pcp-server-policy** *string*
Introduced	16.0.R1

pim

Context	**configure router** *string*
Description	Enter the pim context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim**
Description	Administrative state of PIM
Default	enable
Options	enable, disable
Introduced	16.0.R1

apply-to *keyword*

Context	**configure router** *string* **pim**
Description	IES and non-IES interfaces to create in PIM
Default	none
Options	ies, non-ies, all, none
Introduced	16.0.R1

import

Context	**configure router** *string* **pim**
Description	Enter the import context
Introduced	16.0.R1

join-policy *string*

Context	**configure router** *string* **pim import**
Description	Character limit for policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

register-policy *string*

Context	**configure router** *string* **pim import**
Description	Character limit for policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure router** *string* **pim**
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

assert-period *number*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Time for periodic refreshes of PIM Assert messages on an interface
Range	1 to 300
Default	60
Introduced	16.0.R1

bfd-liveness

Context	**configure router** *string* **pim interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **pim interface** *interface-name* **bfd-liveness**
Description	Use Bidirectional Forwarding Detection for IPv4 on PIM interface
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **pim interface** *interface-name* **bfd-liveness**
Description	Use Bidirectional Forwarding Detection for IPv6 on PIM interface
Default	false
Introduced	16.0.R1

bsm-check-rtr-alert *boolean*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Check router alert option in bootstrap messages received
Default	false
Introduced	16.0.R1

hello-interval *number*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Frequency at which PIM Hello messages are sent over this interface
Range	0 to 255
Default	30
Introduced	16.0.R1

hello-multiplier *number*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Multiplier of Hello in multiples of 0.1
Range	20 to 100
Default	35
Introduced	16.0.R1

improved-assert *boolean*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Allow improved assert processing on interface
Default	true
Introduced	16.0.R1

instant-prune-echo *boolean*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Allow PIM to send an instant prune echo when router starts the prune pending timer for PIM interface
Default	false
Introduced	16.0.R1

ipv4

Context	**configure router** *string* **pim interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

monitor-oper-group

Context	**configure router** *string* **pim interface** *interface-name* **ipv4**
Description	Enter the monitor-oper-group context
Introduced	16.0.R1

name *string*

Context **configure router** *string* **pim interface** *interface-name* **ipv4 monitor-oper-group**

Description Operational group to monitor for address family

Reference configure **service oper-group** *string*

Introduced 16.0.R1

operation *keyword*

Context **configure router** *string* **pim interface** *interface-name* **ipv4 monitor-oper-group**

Description Perform given operation when oper-group is active.

Options add, subtract, set

Introduced 16.0.R1

priority-delta *number*

Context **configure router** *string* **pim interface** *interface-name* **ipv4 monitor-oper-group**

Description Delta priority with operation when operational group is active

Range 1 to 4294967295

Introduced 16.0.R1

multicast *boolean*

Context **configure router** *string* **pim interface** *interface-name* **ipv4**

Description Enable PIM interface operation

Default true

Introduced 16.0.R1

ipv6

Context **configure router** *string* **pim interface** *interface-name*

Description Enter the ipv6 context

Introduced 16.0.R1

monitor-oper-group

Context **configure router** *string* **pim interface** *interface-name* **ipv6**
Description Enter the monitor-oper-group context
Introduced 16.0.R1

name *string*

Context **configure router** *string* **pim interface** *interface-name* **ipv6 monitor-oper-group**
Description Operational group to monitor for address family
Reference configure **service oper-group** *string*
Introduced 16.0.R1

operation *keyword*

Context **configure router** *string* **pim interface** *interface-name* **ipv6 monitor-oper-group**
Description Perform given operation when oper-group is active.
Options add, subtract, set
Introduced 16.0.R1

priority-delta *number*

Context **configure router** *string* **pim interface** *interface-name* **ipv6 monitor-oper-group**
Description Delta priority with operation when operational group is active
Range 1 to 4294967295
Introduced 16.0.R1

multicast *boolean*

Context **configure router** *string* **pim interface** *interface-name* **ipv6**
Description Enable PIM interface operation
Default true
Introduced 16.0.R1

max-groups *number*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Max number of groups for which PIM can have local receiver information based on received PIM reports
Range	0 | 1 to 16000
Default	0
Introduced	16.0.R1

mcac

Context	**configure router** *string* **pim interface** *interface-name*
Description	Enter the mcac context
Introduced	16.0.R1

bandwidth

Context	**configure router** *string* **pim interface** *interface-name* **mcac**
Description	Enter the bandwidth context
Introduced	16.0.R1

mandatory (*number* | *keyword*)

Context	**configure router** *string* **pim interface** *interface-name* **mcac bandwidth**
Description	Pre-reserved bandwidth for all mandatory channels.
Introduced	16.0.R1

total (*number* | *keyword*)

Context	**configure router** *string* **pim interface** *interface-name* **mcac bandwidth**
Description	Maximum allowed bandwidth.
Introduced	16.0.R1

interface-policy *string*

Context	**configure router** *string* **pim interface** *interface-name* **mcac**
Description	Name for multicast CAC interface policy
Reference	configure **mcac interface-policy** *string*
Introduced	16.0.R1

mc-constraints

Context **configure router** *string* **pim interface** *interface-name* **mcac**
Description Enter the mc-constraints context
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **pim interface** *interface-name* **mcac mc-constraints**
Description Administrative state of constraint for multicast CAC policy
Default enable
Options enable, disable
Introduced 16.0.R1

level [level-id] *number*

Context **configure router** *string* **pim interface** *interface-name* **mcac mc-constraints**
Description Enter the level context
Introduced 16.0.R1

[level-id] *number*

Context **configure router** *string* **pim interface** *interface-name* **mcac mc-constraints level** *number*
Description Bandwidth level ID for a multicast CAC constraint
Range 1 to 8
Introduced 16.0.R1
Notes This element is part of a list key

bandwidth *number*

Context **configure router** *string* **pim interface** *interface-name* **mcac mc-constraints level** *number*
Description Bandwidth available for this level
Range 0 to 2147483647
Introduced 16.0.R1
Notes This element is mandatory

number-down [number-lag-port-down] *number*

Context	**configure router** *string* **pim interface** *interface-name* **mcac mc-constraints**
Description	Enter the number-down context
Introduced	16.0.R1

[number-lag-port-down] *number*

Context	**configure router** *string* **pim interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Number of LAG ports down
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context	**configure router** *string* **pim interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure router** *string* **pim interface** *interface-name* **mcac mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure router** *string* **pim interface** *interface-name* **mcac**
Description	Multicast CAC policy name
Reference	configure **mcac policy** *string*
Introduced	16.0.R1

multicast-senders *keyword*

Context	**configure router** *string* **pim interface** *interface-name*
Description	Subnet matching for the incoming data packets
Default	auto
Options	auto, always, never
Introduced	16.0.R1

p2mp-ldp-tree-join

Context	**configure router** *string* **pim interface** *interface-name*
Description	Enter the p2mp-ldp-tree-join context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure router** *string* **pim interface** *interface-name* **p2mp-ldp-tree-join**
Description	Allow dynamic mLDP in-band signaling for IPv4 PIM joins
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure router** *string* **pim interface** *interface-name* **p2mp-ldp-tree-join**
Description	Allow dynamic mLDP in-band signaling for IPv6 PIM joins
Default	false
Introduced	16.0.R1

priority *number*

Context	**configure router** *string* **pim interface** *interface-name*
Description	DR election priority for this interface
Range	1 to max
Default	1
Introduced	16.0.R1

sticky-dr

Context **configure router** *string* **pim interface** *interface-name*

Description Enter the sticky-dr context

Introduced 16.0.R1

priority *number*

Context **configure router** *string* **pim interface** *interface-name* **sticky-dr**

Description DR election priority for this interface

Range 1 to max

Default 1024

Introduced 16.0.R1

three-way-hello *boolean*

Context **configure router** *string* **pim interface** *interface-name*

Description Allow three-way hello compatibility mode

Default false

Introduced 16.0.R1

tracking-support *boolean*

Context **configure router** *string* **pim interface** *interface-name*

Description Allow upstream routers to explicitly track join membership

Default false

Introduced 16.0.R1

ipv4

Context **configure router** *string* **pim**

Description Enter the ipv4 context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim ipv4**
Description	Administrative state of PIM operation for IPv4
Default	enable
Options	enable, disable
Introduced	16.0.R1

gtm

Context	**configure router** *string* **pim ipv4**
Description	Enter the gtm context
Introduced	16.0.R1

auto-discovery *keyword*

Context	**configure router** *string* **pim ipv4 gtm**
Description	Method for multicast VPN membership auto-discovery
Options	bgp
Introduced	16.0.R1

multicast-fast-failover *boolean*

Context	**configure router** *string* **pim ipv4**
Description	Use Multicast-Only Fast Reroute (MoFRR) functionality
Default	false
Introduced	16.0.R1

rpf-table *keyword*

Context	**configure router** *string* **pim ipv4**
Description	Route table(s) for the Reverse Path Forwarding (RPF) lookup
Default	rtable-u
Options	rtable-m, rtable-u, both
Introduced	16.0.R1

ssm-assert-compatible-mode *boolean*

Context	**configure router** *string* **pim ipv4**
Description	Enable SSM assert compatible mode
Default	false
Introduced	16.0.R1

ssm-default-range *boolean*

Context	**configure router** *string* **pim ipv4**
Description	SSM default range
Default	true
Introduced	16.0.R1

ipv6

Context	**configure router** *string* **pim**
Description	Enter the ipv6 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim ipv6**
Description	Administrative state of PIM operation for IPv6
Default	disable
Options	enable, disable
Introduced	16.0.R1

multicast-fast-failover *boolean*

Context	**configure router** *string* **pim ipv6**
Description	Use Multicast-Only Fast Reroute (MoFRR) functionality
Default	false
Introduced	16.0.R1

rpf-table *keyword*

Context	**configure router** *string* **pim ipv6**
Description	Route table(s) for the Reverse Path Forwarding (RPF) lookup
Default	rtable-u
Options	rtable-m, rtable-u, both
Introduced	16.0.R1

ssm-default-range *boolean*

Context	**configure router** *string* **pim ipv6**
Description	SSM default range
Default	true
Introduced	16.0.R1

lag-usage-optimization *boolean*

Context	**configure router** *string* **pim**
Description	Optimize LAG usage
Default	false
Introduced	16.0.R1

mc-ecmp-balance *boolean*

Context	**configure router** *string* **pim**
Description	Enable multicast balancing of traffic over ECMP links
Default	true
Introduced	16.0.R1

mc-ecmp-balance-hold *number*

Context	**configure router** *string* **pim**
Description	Hold time for multicast balancing over ECMP links
Range	2 to 600
Units	minutes
Introduced	16.0.R1

mc-ecmp-hashing

Context	**configure router** *string* **pim**
Description	Enter the mc-ecmp-hashing context
Introduced	16.0.R1

rebalance *boolean*

Context	**configure router** *string* **pim mc-ecmp-hashing**
Description	Rebalance flows to newly added links immediately instead of waiting until they are pruned
Default	false
Introduced	16.0.R1

mdt-spt *boolean*

Context	**configure router** *string* **pim**
Description	Use SPT switchover for default MDT
Default	false
Introduced	16.0.R1

non-dr-attract-traffic *boolean*

Context	**configure router** *string* **pim**
Description	Attract traffic when the router is not the designated one
Default	false
Introduced	16.0.R1

rp

Context	**configure router** *string* **pim**
Description	Enter the rp context
Introduced	16.0.R1

bootstrap

Context	**configure router** *string* **pim rp**
Description	Enter the bootstrap context
Introduced	16.0.R1

export *string*

Context	**configure router** *string* **pim rp bootstrap**
Description	Character limit for policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import *string*

Context	**configure router** *string* **pim rp bootstrap**
Description	Character limit for policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

ipv4

Context	**configure router** *string* **pim rp**
Description	Enter the ipv4 context
Introduced	16.0.R1

anycast [ipv4-address] *ipv4-unicast-address* **rp-set-peer** *ipv4-unicast-address*

Context	**configure router** *string* **pim rp ipv4**
Description	Enter the anycast context
Introduced	16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure router** *string* **pim rp ipv4 anycast** *ipv4-unicast-address* **rp-set-peer** *ipv4-unicast-address*
Description	Anycast RP address
Introduced	16.0.R1
Notes	This element is part of a list key

rp-set-peer *ipv4-unicast-address*

Context	**configure router** *string* **pim rp ipv4 anycast** *ipv4-unicast-address* **rp-set-peer** *ipv4-unicast-address*
Description	Configure a peer in the anycast rp-set.
Introduced	16.0.R1
Notes	This element is part of a list key

auto-rp-discovery *boolean*

Context	**configure router** *string* **pim rp ipv4**
Description	Enable auto RP discovery
Default	false
Introduced	16.0.R1

bsr-candidate

Context	**configure router** *string* **pim rp ipv4**
Description	Enter the bsr-candidate context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure router** *string* **pim rp ipv4 bsr-candidate**
Description	Static bootstrap address of the router
Default	0.0.0.0
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim rp ipv4 bsr-candidate**
Description	Administrative state for participation of router in bootstrap election
Default	disable
Options	enable, disable
Introduced	16.0.R1

hash-mask-len *number*

Context **configure router** *string* **pim rp ipv4 bsr-candidate**
Description Length for bootstrap hash mask
Range 0 to 32
Default 30
Introduced 16.0.R1

priority *number*

Context **configure router** *string* **pim rp ipv4 bsr-candidate**
Description Bootstrap priority of the router
Range 0 to 255
Default 0
Introduced 16.0.R1

rp-candidate

Context **configure router** *string* **pim rp ipv4**
Description Enter the rp-candidate context
Introduced 16.0.R1

address *ipv4-unicast-address*

Context **configure router** *string* **pim rp ipv4 rp-candidate**
Description Bootstrap address of router
Default 0.0.0.0
Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **pim rp ipv4 rp-candidate**
Description Administrative state for participation of router in bootstrap election
Default disable
Options enable, disable
Introduced 16.0.R1

group-range [ipv4-prefix] *ipv4-multicast-prefix*

Context **configure router** *string* **pim rp ipv4 rp-candidate**

Description Enter the group-range context

Introduced 16.0.R1

[ipv4-prefix] *ipv4-multicast-prefix*

Context **configure router** *string* **pim rp ipv4 rp-candidate group-range** *ipv4-multicast-prefix*

Description IPv4 address and mask

Introduced 16.0.R1

Notes This element is part of a list key

holdtime *number*

Context **configure router** *string* **pim rp ipv4 rp-candidate**

Description Time during which the neighboring router considers this router to be up

Range 5 to 255

Default 150

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure router** *string* **pim rp ipv4 rp-candidate**

Description Candidate RP priority

Range 0 to 255

Default 192

Introduced 16.0.R1

static

Context **configure router** *string* **pim rp ipv4**

Description Enter the static context

Introduced 16.0.R1

address [ipv4-address] *ipv4-unicast-address*

Context	**configure router** *string* **pim rp ipv4 static**
Description	Enter the address context
Introduced	16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure router** *string* **pim rp ipv4 static address** *ipv4-unicast-address*
Description	Configure the address of the statically configured RP.
Introduced	16.0.R1
Notes	This element is part of a list key

group-prefix [ipv4-prefix] *ipv4-multicast-prefix*

Context	**configure router** *string* **pim rp ipv4 static address** *ipv4-unicast-address*
Description	Enter the group-prefix context
Introduced	16.0.R1

[ipv4-prefix] *ipv4-multicast-prefix*

Context	**configure router** *string* **pim rp ipv4 static address** *ipv4-unicast-address* **group-prefix** *ipv4-multicast-prefix*
Description	IPv4 address and mask
Introduced	16.0.R1
Notes	This element is part of a list key

override *boolean*

Context	**configure router** *string* **pim rp ipv4 static address** *ipv4-unicast-address*
Description	Change the precedence for static RP over dynamically learnt RP
Default	false
Introduced	16.0.R1

ipv6

Context	**configure router** *string* **pim rp**
Description	Enter the ipv6 context
Introduced	16.0.R1

anycast [ipv6-address] *ipv6-unicast-address* **rp-set-peer** *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6**
Description	Enter the anycast context
Introduced	16.0.R1

[ipv6-address] *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6 anycast** *ipv6-unicast-address* **rp-set-peer** *ipv6-unicast-address*
Description	Anycast RP address
Introduced	16.0.R1
Notes	This element is part of a list key

rp-set-peer *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6 anycast** *ipv6-unicast-address* **rp-set-peer** *ipv6-unicast-address*
Description	Configure a peer in the anycast rp-set.
Introduced	16.0.R1
Notes	This element is part of a list key

bsr-candidate

Context	**configure router** *string* **pim rp ipv6**
Description	Enter the bsr-candidate context
Introduced	16.0.R1

address *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6 bsr-candidate**
Description	Bootstrap address of router
Default	::
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim rp ipv6 bsr-candidate**
Description	Administrative state for participation of router in bootstrap election
Default	disable
Options	enable, disable
Introduced	16.0.R1

hash-mask-len *number*

Context	**configure router** *string* **pim rp ipv6 bsr-candidate**
Description	Length for bootstrap hash mask
Range	0 to 128
Default	126
Introduced	16.0.R1

priority *number*

Context	**configure router** *string* **pim rp ipv6 bsr-candidate**
Description	Bootstrap priority of the router
Range	0 to 255
Default	0
Introduced	16.0.R1

embedded-rp

Context	**configure router** *string* **pim rp ipv6**
Description	Enter the embedded-rp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim rp ipv6 embedded-rp**
Description	Administrative state of embedded RP
Default	disable
Options	enable, disable
Introduced	16.0.R1

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure router** *string* **pim rp ipv6 embedded-rp**
Description	Enter the group-range context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure router** *string* **pim rp ipv6 embedded-rp group-range** *ipv6-multicast-prefix*
Description	IPv6 address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

rp-candidate

Context	**configure router** *string* **pim rp ipv6**
Description	Enter the rp-candidate context
Introduced	16.0.R1

address *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6 rp-candidate**
Description	Bootstrap address of router
Default	::
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **pim rp ipv6 rp-candidate**
Description	Administrative state for participation of router in bootstrap election
Default	disable
Options	enable, disable
Introduced	16.0.R1

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure router** *string* **pim rp ipv6 rp-candidate**
Description	Enter the group-range context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure router** *string* **pim rp ipv6 rp-candidate group-range** *ipv6-multicast-prefix*
Description	IPv6 address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

holdtime *number*

Context	**configure router** *string* **pim rp ipv6 rp-candidate**
Description	Time during which the neighboring router considers this router to be up
Range	5 to 255
Default	150
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure router** *string* **pim rp ipv6 rp-candidate**
Description	Candidate RP priority
Range	0 to 255
Default	192
Introduced	16.0.R1

static

Context	**configure router** *string* **pim rp ipv6**
Description	Enter the static context
Introduced	16.0.R1

address [ipv6-address] *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6 static**
Description	Enter the address context
Introduced	16.0.R1

[ipv6-address] *ipv6-unicast-address*

Context	**configure router** *string* **pim rp ipv6 static address** *ipv6-unicast-address*
Description	Configure the address of the statically configured RP.
Introduced	16.0.R1
Notes	This element is part of a list key

group-prefix [ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure router** *string* **pim rp ipv6 static address** *ipv6-unicast-address*
Description	Enter the group-prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure router** *string* **pim rp ipv6 static address** *ipv6-unicast-address* **group-prefix** *ipv6-multicast-prefix*
Description	IPv6 address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

override *boolean*

Context	**configure router** *string* **pim rp ipv6 static address** *ipv6-unicast-address*
Description	Change the precedence for static RP over dynamically learnt RP
Default	false
Introduced	16.0.R1

rpfv

Context	**configure router** *string* **pim**
Description	Enter the rpfv context
Introduced	16.0.R1

core *boolean*

Context	**configure router** *string* **pim rpfv**
Description	Include proxy RPF vector for core
Default	false
Introduced	16.0.R1

mvpn *boolean*

Context	**configure router** *string* **pim rpfv**
Description	Include proxy RPF vector for Inter-AS Rosen MVPN
Default	false
Introduced	16.0.R1

spt-switchover [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **pim**
Description	Enter the spt-switchover context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **pim spt-switchover** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

threshold (*number* | *keyword*)

Context	**configure router** *string* **pim spt-switchover** (*ipv4-prefix* | *ipv6-prefix*)
Description	SPT switchover threshold
Range	1 to 4294967294
Units	kilobps
Options	infinity
Introduced	16.0.R1
Notes	This element is mandatory

ssm-groups

Context	**configure router** *string* **pim**
Description	Enter the ssm-groups context
Introduced	16.0.R1

group-range [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **pim ssm-groups**
Description	Enter the group-range context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **pim ssm-groups group-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

radius

Context	**configure router** *string*
Description	Enter the radius context
Introduced	16.0.R1

proxy [name] *string*

Context	**configure router** *string* **radius**
Description	Enter the proxy context
Max. Elements	8
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **radius proxy** *string*
Description	RADIUS proxy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **radius proxy** *string*
Description	Administrative state of RADIUS proxy
Default	disable
Options	enable, disable
Introduced	16.0.R1

attribute-matching

Context	**configure router** *string* **radius proxy** *string*
Description	Enter the attribute-matching context
Introduced	16.0.R1

entry [index] *number*

Context	**configure router** *string* **radius proxy** *string* **attribute-matching**
Description	Enter the entry context
Introduced	16.0.R1

[index] *number*

Context	**configure router** *string* **radius proxy** *string* **attribute-matching entry** *number*
Description	Index of this entry
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-server-policy *string*

Context **configure router** *string* **radius proxy** *string* **attribute-matching entry** *number*

Description Accounting server policy

String Length 1 to 32

Introduced 16.0.R1

authentication-server-policy *string*

Context **configure router** *string* **radius proxy** *string* **attribute-matching entry** *number*

Description Authentication server policy

String Length 1 to 32

Introduced 16.0.R1

prefix-string *string*

Context **configure router** *string* **radius proxy** *string* **attribute-matching entry** *number*

Description Prefix string

String Length 1 to 128

Introduced 16.0.R1

suffix-string *string*

Context **configure router** *string* **radius proxy** *string* **attribute-matching entry** *number*

Description Prefix string

String Length 1 to 128

Introduced 16.0.R1

type *number*

Context **configure router** *string* **radius proxy** *string* **attribute-matching**

Description Matching attribute type to RADIUS server policy

Range 1 to 255

Introduced 16.0.R1

vendor (*number* | *keyword*)

Context **configure router** *string* **radius proxy** *string* **attribute-matching**

Description Matching Vendor ID to RADIUS server policy

Introduced 16.0.R1

cache

Context **configure router** *string* **radius proxy** *string*

Description Enter the cache context

Introduced 16.0.R1

admin-state *keyword*

Context **configure router** *string* **radius proxy** *string* **cache**

Description Administrative state of the RADIUS proxy cache

Default disable

Options enable, disable

Introduced 16.0.R1

key

Context **configure router** *string* **radius proxy** *string* **cache**

Description Enter the key context

Introduced 16.0.R1

attribute-type *number*

Context **configure router** *string* **radius proxy** *string* **cache key**

Description RADIUS attribute type to cache for this RADIUS proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is mandatory

packet-type *keyword*

Context	**configure router** *string* **radius proxy** *string* **cache key**
Description	Packet type of the RADIUS messages to generate the key for the cache of this RADIUS proxy server
Options	access-request, access-accept
Introduced	16.0.R1
Notes	This element is mandatory

vendor (*number* | *keyword*)

Context	**configure router** *string* **radius proxy** *string* **cache key**
Description	RADIUS Vendor ID
Introduced	16.0.R1

timeout *number*

Context	**configure router** *string* **radius proxy** *string* **cache**
Description	Idle timeout value
Range	60 to 3600
Default	300
Introduced	16.0.R1

track-accounting

Context	**configure router** *string* **radius proxy** *string* **cache**
Description	Enter the track-accounting context
Introduced	16.0.R1

accounting-off *boolean*

Context	**configure router** *string* **radius proxy** *string* **cache track-accounting**
Description	Remove all ESM hosts associated with the RADIUS client
Default	false
Introduced	16.0.R1

accounting-on *boolean*

Context	**configure router** *string* **radius proxy** *string* **cache track-accounting**
Description	Remove all ESM hosts associated with the RADIUS client
Default	false
Introduced	16.0.R1

interim-update *boolean*

Context	**configure router** *string* **radius proxy** *string* **cache track-accounting**
Description	Update the ESM host with the RADIUS client that generated the interim update
Default	false
Introduced	16.0.R1

start *boolean*

Context	**configure router** *string* **radius proxy** *string* **cache track-accounting**
Description	Update the ESM host with the RADIUS client that generated the accounting-start
Default	false
Introduced	16.0.R1

stop *boolean*

Context	**configure router** *string* **radius proxy** *string* **cache track-accounting**
Description	Remove the ESM host and forward the accounting-stop packet to the external RADIUS server
Default	false
Introduced	16.0.R1

track-authentication

Context	**configure router** *string* **radius proxy** *string* **cache**
Description	Enter the track-authentication context
Introduced	16.0.R1

accept *boolean*

Context **configure router** *string* **radius proxy** *string* **cache track-authentication**

Description Track Access-Accept message for mobility

Default true

Introduced 16.0.R1

track-delete-hold-time *number*

Context **configure router** *string* **radius proxy** *string* **cache**

Description Delete hold time

Range 0 to 6000

Default 0

Introduced 16.0.R1

defaults

Context **configure router** *string* **radius proxy** *string*

Description Enter the defaults context

Introduced 16.0.R1

accounting-server-policy *string*

Context **configure router** *string* **radius proxy** *string* **defaults**

Description Default accounting RADIUS server policy

String Length 1 to 32

Introduced 16.0.R1

authentication-server-policy *string*

Context **configure router** *string* **radius proxy** *string* **defaults**

Description Default authentication RADIUS server policy

String Length 1 to 32

Introduced 16.0.R1

description *string*

Context	**configure router** *string* **radius proxy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

interface [interface-name] *interface-name*

Context	**configure router** *string* **radius proxy** *string*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **radius proxy** *string* **interface** *interface-name*
Description	Specifies the interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

load-balance-key

Context	**configure router** *string* **radius proxy** *string*
Description	Enter the load-balance-key context
Introduced	16.0.R1

attribute-1

Context	**configure router** *string* **radius proxy** *string* **load-balance-key**
Description	Enter the **attribute-1** context
Introduced	16.0.R1

type *number*

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-1**
Description Attribute type to cache for this RADIUS Proxy server
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-1**
Description Vendor-Id attribute
Introduced 16.0.R1
Notes This element is part of a choice

attribute-2

Context **configure router** *string* **radius proxy** *string* **load-balance-key**
Description Enter the **attribute-2** context
Introduced 16.0.R1

type *number*

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-2**
Description Attribute type to cache for this RADIUS Proxy server
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-2**
Description Vendor-Id attribute
Introduced 16.0.R1
Notes This element is part of a choice

attribute-3

Context **configure router** *string* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-3** context

Introduced 16.0.R1

type *number*

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-3**

Description Attribute type to cache for this RADIUS Proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-3**

Description Vendor-Id attribute

Introduced 16.0.R1

Notes This element is part of a choice

attribute-4

Context **configure router** *string* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-4** context

Introduced 16.0.R1

type *number*

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-4**

Description Attribute type to cache for this RADIUS Proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-4**

Description Vendor-Id attribute

Introduced 16.0.R1

Notes This element is part of a choice

attribute-5

Context **configure router** *string* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-5** context

Introduced 16.0.R1

type *number*

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-5**

Description Attribute type to cache for this RADIUS Proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure router** *string* **radius proxy** *string* **load-balance-key attribute-5**

Description Vendor-Id attribute

Introduced 16.0.R1

Notes This element is part of a choice

source-ip-udp

Context **configure router** *string* **radius proxy** *string* **load-balance-key**

Description Key to consist of the source IP address and source UDP port of the RADIUS message

Introduced 16.0.R1

Notes This element is part of a choice

purpose *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **radius proxy** *string*
Description	Purpose of the RADIUS proxy
Options	accounting, authentication, accounting-authentication
Introduced	16.0.R1
Notes	This element is mandatory

python-policy *string*

Context	**configure router** *string* **radius proxy** *string*
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure router** *string* **radius proxy** *string*
Description	Format of the secret key to access the RADIUS proxy server
String Length	1 to 114
Introduced	16.0.R1

send-accounting-response *boolean*

Context	**configure router** *string* **radius proxy** *string*
Description	Allow RADIUS proxy server to respond to Accounting-Response messages
Default	false
Introduced	16.0.R1

wlan-gw

Context	**configure router** *string* **radius proxy** *string*
Description	Enter the wlan-gw context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure router** *string* **radius proxy** *string* **wlan-gw**
Description	IP address of this RADIUS proxy server
Introduced	16.0.R1

ipv6-address *ipv6-unicast-address*

Context	**configure router** *string* **radius proxy** *string* **wlan-gw**
Description	IPv6 address of this RADIUS proxy server
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **radius proxy** *string*
Description	ISA WLAN gateway group
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

server [name] *string*

Context	**configure router** *string* **radius**
Description	Enter the server context
Max. Elements	64
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **radius server** *string*
Description	RADIUS server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

accept-coa *boolean*

Context	**configure router** *string* **radius server** *string*
Description	Allow the server to send Change of Authorization (CoA) messages
Default	false
Introduced	16.0.R1

acct-port *number*

Context	**configure router** *string* **radius server** *string*
Description	UDP port number of the RADIUS for accounting events
Range	1 to 65535
Default	1813
Introduced	16.0.R1

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **radius server** *string*
Description	IP address for server
Introduced	16.0.R1
Notes	This element is mandatory

auth-port *number*

Context	**configure router** *string* **radius server** *string*
Description	UDP port number of the RADIUS to be used as match criteria
Range	1 to 65535
Default	1812
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **radius server** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

pending-requests-limit *number*

Context	**configure router** *string* **radius server** *string*
Description	Limit of the number for pending RADIUS requests
Range	1 to 4096
Default	4096
Introduced	16.0.R1

python-policy *string*

Context	**configure router** *string* **radius server** *string*
Description	Python script policy to modify CoA messages
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure router** *string* **radius server** *string*
Description	Secret key associated with this RADIUS server
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is mandatory

reassembly

Context	**configure router** *string*
Description	Enter the reassembly context
Introduced	16.0.R1

nat-group *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **reassembly**
Description	NAT group (including WLAN Gateway group) that executes the reassembly
Introduced	16.0.R1
Notes	This element is mandatory

rib-api

Context	**configure router** *string*
Description	Enter the rib-api context
Introduced	16.0.R1

mpls

Context	**configure router** *string* **rib-api**
Description	Enter the mpls context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **rib-api mpls**
Description	Administrative state of mpls.
Default	disable
Options	enable, disable
Introduced	16.0.R1

label-name *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **rib-api mpls**
Description	Configure reserved label block.
Reference	configure **router** *string* **mpls-labels reserved-label-block** *string*
Introduced	16.0.R1

rip

Context	**configure router** *string*
Description	Enter the rip context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure router** *string* **rip**
Description	Administratively enable/disable the RIP instance.
Default	enable
Options	enable, disable
Introduced	16.0.R4

authentication-key *encrypted-leaf*

Context	**configure router** *string* **rip**
Description	Authentication or hash key string.
String Length	1 to 50
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure router** *string* **rip**
Description	Authentication type to be used.
Default	none
Options	none, password, md5, md20
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure router** *string* **rip**
Description	Enable BFD monitoring of RIP peers.
Default	false
Introduced	16.0.R4

check-zero *boolean*

Context	**configure router** *string* **rip**
Description	Check for zero values in must-be-zero fields.
Default	false
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **rip**
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-limit

Context	**configure router** *string* **rip**
Description	Enter the export-limit context
Introduced	16.0.R4

log-percent *number*

Context	**configure router** *string* **rip export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R4

number *number*

Context	**configure router** *string* **rip export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R4
Notes	This element is mandatory

export-policy *string*

Context	**configure router** *string* **rip**
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

group [group-name] *string*

Context	**configure router** *string* **rip**
Description	Enter the group context
Introduced	16.0.R4

[group-name] *string*

Context	**configure router** *string* **rip group** *string*
Description	RIP group name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **rip group** *string*
Description	Administratively enable/disable the group.
Default	enable
Options	enable, disable
Introduced	16.0.R4

authentication-key *encrypted-leaf*

Context	**configure router** *string* **rip group** *string*
Description	Authentication or hash key string.
String Length	1 to 50
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure router** *string* **rip group** *string*
Description	Authentication type to be used.
Options	none, password, md5, md20
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure router** *string* **rip group** *string*
Description	Enable BFD monitoring of RIP peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure router** *string* **rip group** *string*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **rip group** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure router** *string* **rip group** *string*
Description	Apply export policies used to determine routes advertised to group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure router** *string* **rip group** *string*
Description	Apply import policies used to determine routes accepted from group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure router** *string* **rip group** *string*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure router** *string* **rip group** *string*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context	**configure router** *string* **rip group** *string*
Description	Metric added to routes exported into RIP.
Range	1 to 16
Introduced	16.0.R4

neighbor [interface-name] *interface-name*

Context	**configure router** *string* **rip group** *string*
Description	Enter the neighbor context
Introduced	16.0.R4

[interface-name] *interface-name*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Administratively enable/disable the neighbor.
Default	enable
Options	enable, disable
Introduced	16.0.R4

authentication-key *encrypted-leaf*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Authentication or hash key string.
String Length	1 to 50
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Authentication type to be used.
Options	none, password, md5, md20
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Enable BFD monitoring of RIP peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Apply export policies used to determine routes advertised to peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Apply import policies used to determine routes accepted from peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context **configure router** *string* **rip group** *string* **neighbor** *interface-name*

Description Metric added to routes exported into RIP.

Range 1 to 16

Introduced 16.0.R4

preference *number*

Context **configure router** *string* **rip group** *string* **neighbor** *interface-name*

Description Route preference.

Range 1 to 255

Introduced 16.0.R4

receive *keyword*

Context **configure router** *string* **rip group** *string* **neighbor** *interface-name*

Description Accepted version on received packets.

Options version-1, version-2, both, none

Introduced 16.0.R4

send *keyword*

Context **configure router** *string* **rip group** *string* **neighbor** *interface-name*

Description RIP version and method used to send RIP updates.

Options none, version-1, broadcast, multicast, unicast

Introduced 16.0.R4

split-horizon *boolean*

Context **configure router** *string* **rip group** *string* **neighbor** *interface-name*

Description Enable split-horizon.

Introduced 16.0.R4

timers

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Enter the timers context
Introduced	16.0.R4

flush *number*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

unicast-address [address] *ipv4-unicast-address*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name*
Description	Enter the unicast-address context
Introduced	16.0.R4

[address] *ipv4-unicast-address*

Context	**configure router** *string* **rip group** *string* **neighbor** *interface-name* **unicast-address** *ipv4-unicast-address*
Description	Create a unicast-address for the neighbor.
Introduced	16.0.R4
Notes	This element is part of a list key

preference *number*

Context	**configure router** *string* **rip group** *string*
Description	Route preference.
Range	1 to 255
Introduced	16.0.R4

receive *keyword*

Context	**configure router** *string* **rip group** *string*
Description	Accepted version on received packets.
Options	version-1, version-2, both, none
Introduced	16.0.R4

send *keyword*

Context	**configure router** *string* **rip group** *string*
Description	RIP version and method used to send RIP updates.
Options	none, version-1, broadcast, multicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure router** *string* **rip group** *string*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure router** *string* **rip group** *string*
Description	Enter the timers context
Introduced	16.0.R4

flush *number*

Context	**configure router** *string* **rip group** *string* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **rip group** *string* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure router** *string* **rip group** *string* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

import-policy *string*

Context	**configure router** *string* **rip**
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure router** *string* **rip**
Description	Maximum number of routes in message.
Range	25 to 255
Default	25
Introduced	16.0.R4

metric-in *number*

Context	**configure router** *string* **rip**
Description	Metric added to routes from neighbor.
Range	1 to 16
Default	1
Introduced	16.0.R4

metric-out *number*

Context	**configure router** *string* **rip**
Description	Metric added to routes exported into RIP.
Range	1 to 16
Default	1
Introduced	16.0.R4

preference *number*

Context	**configure router** *string* **rip**
Description	Route preference.
Range	1 to 255
Default	100
Introduced	16.0.R4

receive *keyword*

Context	**configure router** *string* **rip**
Description	Accepted version on received packets.
Default	both
Options	version-1, version-2, both, none
Introduced	16.0.R4

send *keyword*

Context	**configure router** *string* **rip**
Description	RIP version and method used to send RIP updates.
Default	broadcast
Options	none, version-1, broadcast, multicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure router** *string* **rip**
Description	Enable split-horizon.
Default	true
Introduced	16.0.R4

timers

Context	**configure router** *string* **rip**
Description	Enter the timers context
Introduced	16.0.R4

flush *number*

Context	**configure router** *string* **rip timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **rip timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure router** *string* **rip timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

ripng

Context	**configure router** *string*
Description	Enter the ripng context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure router** *string* **ripng**
Description	Administratively enable/disable the RIPng instance.
Default	enable
Options	enable, disable
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure router** *string* **ripng**
Description	Enable BFD monitoring of RIPng peers.
Default	false
Introduced	16.0.R4

check-zero *boolean*

Context	**configure router** *string* **ripng**
Description	Check for zero values in must-be-zero fields.
Default	false
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **ripng**
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-limit

Context	**configure router** *string* **ripng**
Description	Enter the export-limit context
Introduced	16.0.R1

log-percent *number*

Context	**configure router** *string* **ripng export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R4

number *number*

Context	**configure router** *string* **ripng export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R4
Notes	This element is mandatory

export-policy *string*

Context	**configure router** *string* **ripng**
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

group [group-name] *string*

Context	**configure router** *string* **ripng**
Description	Enter the group context
Introduced	16.0.R4

[group-name] *string*

Context	**configure router** *string* **ripng group** *string*
Description	RIP group name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ripng group** *string*
Description	Administratively enable/disable the group.
Default	enable
Options	enable, disable
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure router** *string* **ripng group** *string*
Description	Enable BFD monitoring of RIPng peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure router** *string* **ripng group** *string*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **ripng group** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure router** *string* **ripng group** *string*
Description	Apply export policies used to determine routes advertised to group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure router** *string* **ripng group** *string*
Description	Apply import policies used to determine routes accepted from group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure router** *string* **ripng group** *string*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure router** *string* **ripng group** *string*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context	**configure router** *string* **ripng group** *string*
Description	Metric added to routes exported into RIPng.
Range	1 to 16
Introduced	16.0.R4

neighbor [interface-name] *interface-name*

Context	**configure router** *string* **ripng group** *string*
Description	Enter the neighbor context
Introduced	16.0.R4

[interface-name] *interface-name*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Administratively enable/disable the neighbor.
Default	enable
Options	enable, disable
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Enable BFD monitoring of RIPng peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Apply export policies used to determine routes advertised to peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Apply import policies used to determine routes accepted from peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Metric added to routes exported into RIPng.
Range	1 to 16
Introduced	16.0.R4

preference *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Route preference.
Range	1 to 255
Introduced	16.0.R4

receive *keyword*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Accepted version on received packets.
Options	none, ripng
Introduced	16.0.R4

send *keyword*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	RIPng version and method used to send RIPng updates.
Options	none, ripng, unicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Enter the timers context
Introduced	16.0.R1

flush *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

unicast-address [address] *ipv6-unicast-address*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name*
Description	Enter the unicast-address context
Introduced	16.0.R4

[address] *ipv6-unicast-address*

Context	**configure router** *string* **ripng group** *string* **neighbor** *interface-name* **unicast-address** *ipv6-unicast-address*
Description	Create a unicast-address for the neighbor.
Introduced	16.0.R4
Notes	This element is part of a list key

preference *number*

Context	**configure router** *string* **ripng group** *string*
Description	Route preference.
Range	1 to 255
Introduced	16.0.R4

receive *keyword*

Context	**configure router** *string* **ripng group** *string*
Description	Accepted version on received packets.
Options	none, ripng
Introduced	16.0.R4

send *keyword*

Context	**configure router** *string* **ripng group** *string*
Description	RIPng version and method used to send RIPng updates.
Options	none, ripng
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure router** *string* **ripng group** *string*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure router** *string* **ripng group** *string*
Description	Enter the timers context
Introduced	16.0.R1

flush *number*

Context	**configure router** *string* **ripng group** *string* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **ripng group** *string* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure router** *string* **ripng group** *string* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

import-policy *string*

Context	**configure router** *string* **ripng**
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure router** *string* **ripng**
Description	Maximum number of routes in message.
Range	25 to 255
Default	25
Introduced	16.0.R4

metric-in *number*

Context	**configure router** *string* **ripng**
Description	Metric added to routes from neighbor.
Range	1 to 16
Default	1
Introduced	16.0.R4

metric-out *number*

Context	**configure router** *string* **ripng**
Description	Metric added to routes exported into RIPng.
Range	1 to 16
Default	1
Introduced	16.0.R4

preference *number*

Context	**configure router** *string* **ripng**
Description	Route preference.
Range	1 to 255
Default	100
Introduced	16.0.R4

receive *keyword*

Context	**configure router** *string* **ripng**
Description	Accepted version on received packets.
Default	ripng
Options	none, ripng
Introduced	16.0.R4

send *keyword*

Context	**configure router** *string* **ripng**
Description	RIPng version and method used to send RIPng updates.
Default	ripng
Options	none, ripng
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure router** *string* **ripng**
Description	Enable split-horizon.
Default	true
Introduced	16.0.R4

timers

Context	**configure router** *string* **ripng**
Description	Enter the timers context
Introduced	16.0.R1

flush *number*

Context	**configure router** *string* **ripng timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure router** *string* **ripng timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure router** *string* **ripng timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

router-id *router-id*

Context	**configure router** *string*
Description	Unique router ID for the router in the Autonomous System
Introduced	16.0.R1

rsvp

Context	**configure router** *string*
Description	Enter the rsvp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **rsvp**
Description	Administrative state of RSVP
Default	disable
Options	enable, disable
Introduced	16.0.R1

dbw-accounting

Context	**configure router** *string* **rsvp**
Description	Enter the dbw-accounting context
Introduced	16.0.R1

dbw-multiplier *number*

Context	**configure router** *string* **rsvp dbw-accounting**
Description	Dark Bandwidth multiplier
Range	0 to 1000
Default	100
Units	percent
Introduced	16.0.R1

down-threshold

Context	**configure router** *string* **rsvp dbw-accounting**
Description	Enter the down-threshold context
Introduced	16.0.R1

bw *number*

Context	**configure router** *string* **rsvp dbw-accounting down-threshold**
Description	Minimum absolute difference between dark bandwidth and sampled data rate to trigger IGP-TE update
Range	0 to 1000000
Units	megabps
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **rsvp dbw-accounting down-threshold**
Description	Minimum difference in percent between dark bandwidth and sampled data rate, to trigger IGP-TE update
Range	0 to 100
Default	0
Introduced	16.0.R1

sample-interval *number*

Context	**configure router** *string* **rsvp dbw-accounting**
Description	Dark Bandwidth sample interval
Range	10 to 600
Default	30
Units	seconds
Introduced	16.0.R1

sample-multiplier *number*

Context	**configure router** *string* **rsvp dbw-accounting**
Description	Dark Bandwidth sample multiplier
Range	1 to 10
Default	3
Introduced	16.0.R1

up-threshold

Context	**configure router** *string* **rsvp dbw-accounting**
Description	Enter the up-threshold context
Introduced	16.0.R1

bw *number*

Context	**configure router** *string* **rsvp dbw-accounting up-threshold**
Description	Minimum absolute difference between dark bandwidth and sampled data rate to trigger IGP-TE update
Range	0 to 1000000
Units	megabps
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **rsvp dbw-accounting up-threshold**
Description	Minimum difference in percent between dark bandwidth and sampled data rate, to trigger IGP-TE update
Range	0 to 100
Default	0
Introduced	16.0.R1

diffserv-te

Context	**configure router** *string* **rsvp**
Description	Enter the diffserv-te context
Introduced	16.0.R1

admission-control-model *keyword*

Context	**configure router** *string* **rsvp diffserv-te**
Description	Parameters for the DiffServ TE node
Options	mam, rdm
Introduced	16.0.R1
Notes	This element is mandatory

class-type-bw

Context	**configure router** *string* **rsvp diffserv-te**
Description	Enter the class-type-bw context
Introduced	16.0.R1

ct0 *number*

Context	**configure router** *string* **rsvp diffserv-te class-type-bw**
Description	Percentage of RSVP interface bandwidth for class type (CT) 0
Range	0 to 100
Default	0
Introduced	16.0.R1

ct1 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**

Description Percentage of RSVP interface bandwidth for class type (CT) 1

Range 0 to 100

Default 0

Introduced 16.0.R1

ct2 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**

Description Percentage of RSVP interface bandwidth for class type (CT) 2

Range 0 to 100

Default 0

Introduced 16.0.R1

ct3 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**

Description Percentage of RSVP interface bandwidth for class type (CT) 3

Range 0 to 100

Default 0

Introduced 16.0.R1

ct4 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**

Description Percentage of RSVP interface bandwidth for class type (CT) 4

Range 0 to 100

Default 0

Introduced 16.0.R1

ct5 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**
Description Percentage of RSVP interface bandwidth for class type (CT) 5
Range 0 to 100
Default 0
Introduced 16.0.R1

ct6 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**
Description Percentage of RSVP interface bandwidth for class type (CT) 6
Range 0 to 100
Default 0
Introduced 16.0.R1

ct7 *number*

Context **configure router** *string* **rsvp diffserv-te class-type-bw**
Description Percentage of RSVP interface bandwidth for class type (CT) 7
Range 0 to 100
Default 0
Introduced 16.0.R1

fc [fc-name] *keyword*

Context **configure router** *string* **rsvp diffserv-te**
Description Enter the fc context
Introduced 16.0.R1

[fc-name] *keyword*

Context **configure router** *string* **rsvp diffserv-te fc** *keyword*
Description Forwarding class for this mapping
Options be, l2, af, l1, h2, ef, h1, nc
Introduced 16.0.R1
Notes This element is part of a list key

class-type *number*

Context	**configure router** *string* **rsvp diffserv-te fc** *keyword*
Description	Diff-Serv Class Type (CT) for an LSP
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

te-class [te-class-number] *number*

Context	**configure router** *string* **rsvp diffserv-te**
Description	Enter the te-class context
Introduced	16.0.R1

[te-class-number] *number*

Context	**configure router** *string* **rsvp diffserv-te te-class** *number*
Description	Unique value that identifies the TE class.
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

class-type *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **rsvp diffserv-te te-class** *number*
Description	Class type (CT) associated with the TE class
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

priority *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **rsvp diffserv-te te-class** *number*
Description	TE class priority
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

entropy-label-capability *boolean*

Context	**configure router** *string* **rsvp**
Description	Allow receiving and processing of the entropy label and ELI on incoming packets of RSVP LSPs
Default	false
Introduced	16.0.R1

graceful-restart

Context	**configure router** *string* **rsvp**
Description	Enter the graceful-restart context
Introduced	16.0.R1

max-recovery *number*

Context	**configure router** *string* **rsvp graceful-restart**
Description	Maximum time to wait before a graceful helper recovers the session
Range	1 to 1800
Default	300
Units	seconds
Introduced	16.0.R1

max-restart *number*

Context	**configure router** *string* **rsvp graceful-restart**
Description	Maximum time that a graceful helper waits for session restart after the neighbor is considered down
Range	1 to 300
Default	120
Units	seconds
Introduced	16.0.R1

graceful-shutdown *boolean*

Context	**configure router** *string* **rsvp**
Description	Initiate a graceful shutdown of all RSVP interfaces on the node
Default	false
Introduced	16.0.R1

implicit-null-label *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **rsvp**
Description	Signal the implicit null option for all RSVP LSPs
Default	false
Introduced	16.0.R1

include-node-id-in-rro *boolean*

Context	**configure router** *string* **rsvp**
Description	Include the node-id sub-object in the RRO (Record Route Object) on the RSVP instance
Default	false
Introduced	16.0.R1

interface [interface-name] *string*

Context	**configure router** *string* **rsvp**
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *string*

Context	**configure router** *string* **rsvp interface** *string*
Description	Index for router RSVP interface
Reference	configure **router** *string* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **rsvp interface** *string*
Description	Administrative state of RSVP on the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure router** *string* **rsvp interface** *string*
Description	Authentication or hash key string
String Length	1 to 50
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure router** *string* **rsvp interface** *string*
Description	Configure TCP authentication keychain to use for the session.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

bfd-liveness *boolean*

Context	**configure router** *string* **rsvp interface** *string*
Description	Enable BFD
Default	false
Introduced	16.0.R1

class-type-bw

Context	**configure router** *string* **rsvp interface** *string*
Description	Enter the class-type-bw context
Introduced	16.0.R1

ct0 *number*

Context	**configure router** *string* **rsvp interface** *string* **class-type-bw**
Description	Percentage of link bandwidth for class type (CT) 0
Range	0 to 100
Introduced	16.0.R1

ct1 *number*

Context	**configure router** *string* **rsvp interface** *string* **class-type-bw**
Description	Percentage of link bandwidth for class type (CT) 1
Range	0 to 100
Introduced	16.0.R1

ct2 *number*

Context	**configure router** *string* **rsvp interface** *string* **class-type-bw**
Description	Percentage of link bandwidth for class type (CT) 2
Range	0 to 100
Introduced	16.0.R1

ct3 *number*

Context **configure router** *string* **rsvp interface** *string* **class-type-bw**

Description Percentage of link bandwidth for class type (CT) 3

Range 0 to 100

Introduced 16.0.R1

ct4 *number*

Context **configure router** *string* **rsvp interface** *string* **class-type-bw**

Description Percentage of link bandwidth for class type (CT) 4

Range 0 to 100

Introduced 16.0.R1

ct5 *number*

Context **configure router** *string* **rsvp interface** *string* **class-type-bw**

Description Percentage of link bandwidth for class type (CT) 5

Range 0 to 100

Introduced 16.0.R1

ct6 *number*

Context **configure router** *string* **rsvp interface** *string* **class-type-bw**

Description Percentage of link bandwidth for class type (CT) 6

Range 0 to 100

Introduced 16.0.R1

ct7 *number*

Context **configure router** *string* **rsvp interface** *string* **class-type-bw**

Description Percentage of link bandwidth for class type (CT) 7

Range 0 to 100

Introduced 16.0.R1

dbw-down-threshold

Context	**configure router** *string* **rsvp interface** *string*
Description	Enter the dbw-down-threshold context
Introduced	16.0.R1

bw *number*

Context	**configure router** *string* **rsvp interface** *string* **dbw-down-threshold**
Description	Minimum absolute difference between dark bandwidth and sampled data rate to trigger IGP-TE update
Range	0 to 1000000
Units	megabps
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **rsvp interface** *string* **dbw-down-threshold**
Description	Minimum difference in percent between dark bandwidth and sampled data rate, to trigger IGP-TE update
Range	0 to 100
Units	percent
Introduced	16.0.R1

dbw-multiplier *number*

Context	**configure router** *string* **rsvp interface** *string*
Description	Configure the Dark Bandwidth multiplier.
Range	0 to 1000
Units	percent
Introduced	16.0.R1

dbw-up-threshold

Context	**configure router** *string* **rsvp interface** *string*
Description	Enter the dbw-up-threshold context
Introduced	16.0.R1

bw *number*

Context	**configure router** *string* **rsvp interface** *string* **dbw-up-threshold**
Description	Minimum absolute difference between dark bandwidth and sampled data rate to trigger IGP-TE update
Range	0 to 1000000
Units	megabps
Introduced	16.0.R1

percent *number*

Context	**configure router** *string* **rsvp interface** *string* **dbw-up-threshold**
Description	Minimum difference in percent between dark bandwidth and sampled data rate, to trigger IGP-TE update
Range	0 to 100
Units	percent
Introduced	16.0.R1

graceful-restart-helper-mode *boolean*

Context	**configure router** *string* **rsvp interface** *string*
Description	Enable graceful restart helper for the RSVP interface
Default	false
Introduced	16.0.R1

graceful-shutdown *boolean*

Context	**configure router** *string* **rsvp interface** *string*
Description	Initiate a graceful shutdown of RSVP interface
Default	false
Introduced	16.0.R1

hello-interval *number*

Context	**configure router** *string* **rsvp interface** *string*
Description	Time between RSVP Hello messages
Range	0 to 60
Default	3
Units	seconds
Introduced	16.0.R1

implicit-null-label *boolean*

Context	**configure router** *string* **rsvp interface** *string*
Description	Signal the implicit null label value for all LSPs
Introduced	16.0.R1

refresh-reduction

Context	**configure router** *string* **rsvp interface** *string*
Description	Enter the refresh-reduction context
Introduced	16.0.R1

reliable-delivery *boolean*

Context	**configure router** *string* **rsvp interface** *string* **refresh-reduction**
Description	Reliable delivery of RSVP messages over the RSVP interface
Default	false
Introduced	16.0.R1

subscription *number*

Context	**configure router** *string* **rsvp interface** *string*
Description	Percentage of the link bandwidth to use for reservation
Range	0 to 1000
Default	100
Introduced	16.0.R1

te-down-threshold

Context	**configure router** *string* **rsvp interface** *string*
Description	Enter the te-down-threshold context
Introduced	16.0.R1

value *number*

Context	**configure router** *string* **rsvp interface** *string* **te-down-threshold**
Description	Specifies down TE threshold levels.
Range	0 to 100
Max. Elements	16
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

te-up-threshold

Context	**configure router** *string* **rsvp interface** *string*
Description	Enter the te-up-threshold context
Introduced	16.0.R1

value *number*

Context	**configure router** *string* **rsvp interface** *string* **te-up-threshold**
Description	Specifies up TE threshold levels.
Range	0 to 100
Max. Elements	16
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

keep-multiplier *number*

Context	**configure router** *string* **rsvp**
Description	Value for the keep-multiplier to declare a reservation or neighbor as down
Range	1 to 255
Default	3
Introduced	16.0.R1

msg-pacing

Context	**configure router** *string* **rsvp**
Description	Enter the msg-pacing context
Introduced	16.0.R1

max-burst *number*

Context	**configure router** *string* **rsvp msg-pacing**
Description	Maximum RSVP messages that are sent over a specified period when message pacing is enabled
Range	100 to 1000
Default	650
Introduced	16.0.R1

period *number*

Context	**configure router** *string* **rsvp msg-pacing**
Description	Time for RSVP message pacing
Range	100 to 1000
Default	100
Units	milliseconds
Introduced	16.0.R1

p2mp-merge-point-abort-timer *number*

Context	**configure router** *string* **rsvp**
Description	Merge pointer timer for abort timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

p2p-merge-point-abort-timer *number*

Context	**configure router** *string* **rsvp**
Description	Merge pointer timer for P2P paths
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

preemption-timer *number*

Context	**configure router** *string* **rsvp**
Description	Preemption timer for the MPLS instance
Range	0 to 1800
Default	300
Units	seconds
Introduced	16.0.R1

rapid-retransmit-time *number*

Context	**configure router** *string* **rsvp**
Description	Rapid retransmission interval to reliably deliver RSVP messages
Range	1 to 100
Default	5
Units	deciseconds
Introduced	16.0.R1

rapid-retry-limit *number*

Context	**configure router** *string* **rsvp**
Description	Rapid retry limit to reliably deliver RSVP messages
Range	1 to 6
Default	3
Introduced	16.0.R1

refresh-reduction-over-bypass *boolean*

Context	**configure router** *string* **rsvp**
Description	Enable/disable refresh reduction capabilities over all bypass tunnels.
Default	false
Introduced	16.0.R1

refresh-time *number*

Context	**configure router** *string* **rsvp**
Description	Interval between refresh messages
Range	1 to 65535
Default	30
Units	seconds
Introduced	16.0.R1

te-down-threshold *number*

Context	**configure router** *string* **rsvp**
Description	Value for the te-down-threshold
Range	0 to 100
Max. Elements	16
Introduced	16.0.R1
Notes	This element is ordered by user

te-threshold-update

Context	**configure router** *string* **rsvp**
Description	Enter the te-threshold-update context
Introduced	16.0.R1

on-cac-failure *boolean*

Context	**configure router** *string* **rsvp te-threshold-update**
Description	CAC (Call Admission Control) failure-triggered IGP update
Default	false
Introduced	16.0.R1

update-timer *number*

Context	**configure router** *string* **rsvp te-threshold-update**
Description	Timer-based IGP updates
Range	1 to 300
Units	seconds
Introduced	16.0.R1

te-up-threshold *number*

Context	**configure router** *string* **rsvp**
Description	Value for the te-up-threshold
Range	0 to 100
Max. Elements	16
Introduced	16.0.R1
Notes	This element is ordered by user

segment-routing

Context	**configure router** *string*
Description	Enter the segment-routing context
Introduced	16.0.R1

sr-policies

Context	**configure router** *string* **segment-routing**
Description	Enter the sr-policies context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **segment-routing sr-policies**
Description	Administrative state of segment routing policy system
Default	disable
Options	enable, disable
Introduced	16.0.R1

ingress-statistics

Context	**configure router** *string* **segment-routing sr-policies**
Description	Enter the ingress-statistics context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **segment-routing sr-policies ingress-statistics**
Description	Administrative state of ingress statistics for the segment routing policies
Default	disable
Options	enable, disable
Introduced	16.0.R1

reserved-label-block *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies**
Description	Reserved local block for segment routing policies
Reference	configure **router** *string* **mpls-labels reserved-label-block** *string*
Introduced	16.0.R1

static-policy [name] *string*

Context	**configure router** *string* **segment-routing sr-policies**
Description	Enter the static-policy context
Max. Elements	8192
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Name for the segment routing static policy
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Administrative state of segment routing static policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

binding-sid *number*

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Segment ID that opaquely represents an SR policy to upstream routers
Range	32 to 1048575
Introduced	16.0.R1

color *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Traffic flows to be steered by this policy
Range	0 to 4294967295
Introduced	16.0.R1

distinguisher *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Unique value for a policy
Range	1 to max
Introduced	16.0.R1

endpoint *ipv4-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Destination of the source-routed path
Introduced	16.0.R1

head-end (*union* | *keyword*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Head end address for this static policy
Options	local
Introduced	16.0.R1

preference *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Preference value of this static policy
Default	100
Introduced	16.0.R1

segment [seg-list-index] *number*

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string*
Description	Enter the segment-list context
Max. Elements	32
Introduced	16.0.R1

[seg-list-index] *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string* **segment-list** *number*
Description	Index for identifying a particular segment list
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string* **segment-list** *number*
Description	Administrative state of the segment list of a static policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

segment [segment-index] *number*

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string* **segment-list** *number*
Description	Enter the segment context
Max. Elements	11
Introduced	16.0.R1

[segment-index] *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string* **segment-list** *number* **segment** *number*
Description	Index for identifying a particular segment list
Range	1 to 11
Introduced	16.0.R1
Notes	This element is part of a list key

mpls-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string* **segment-list** *number* **segment** *number*
Description	Value for the MPLS label
Range	0 to 1048575
Introduced	16.0.R1

weight *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **segment-routing sr-policies static-policy** *string* **segment-list** *number*
Description	Weight of this segment list
Default	1
Introduced	16.0.R1

selective-fib *boolean*

Context	**configure router** *string*
Description	Selective FIB
Default	true
Introduced	16.0.R1

sfm-overload

Context	**configure router** *string*
Description	Enter the sfm-overload context
Introduced	16.0.R1

holdoff-time *number*

Context	**configure router** *string* **sfm-overload**
Description	The delay between the detection of the SFM condition and the IGP entering the overload state.
Range	1 to 600
Units	seconds
Introduced	16.0.R3

sgt-qos

Context	**configure router** *string*
Description	Enter the sgt-qos context
Introduced	16.0.R1

dot1p

Context	**configure router** *string* **sgt-qos**
Description	Enter the dot1p context
Introduced	16.0.R1

application [dot1p-app-name] *keyword*

Context	**configure router** *string* **sgt-qos dot1p**
Description	Enter the application context
Introduced	16.0.R1

[dot1p-app-name] *keyword*

Context	**configure router** *string* **sgt-qos dot1p application** *keyword*
Description	Dot1p application identifier on the NOKIA SR OS router that generates control traffic over IP
Options	arp, isis, pppoe
Introduced	16.0.R1
Notes	This element is part of a list key

dot1p (*keyword* | *number*)

Context	**configure router** *string* **sgt-qos dot1p application** *keyword*
Description	Dot1p value to the traffic generated by this application
Range	0 to 7
Introduced	16.0.R1

dscp

Context	**configure router** *string* **sgt-qos**
Description	Enter the dscp context
Introduced	16.0.R1

application [dscp-app-name] *keyword*

Context	**configure router** *string* **sgt-qos dscp**
Description	Enter the application context
Introduced	16.0.R1

[dscp-app-name] *keyword*

Context	**configure router** *string* **sgt-qos dscp application** *keyword*
Description	DSCP application identifier on the NOKIA SR OS router that generates control traffic over IP
Options	bgp, cflowd, dhcp, dns, ftp, icmp, igmp, l2tp, ldp, mld, msdp, ndis, ntp, ospf, pim, radius, rip, rsvp, snmp, snmp-notification, srrp, ssh, syslog, tacplus, telnet, tftp, traceroute, vrrp, ptp, igmp-reporter, gtp, sflow, diameter, pcep, call-trace, bmp, grpc, mtrace2, http
Introduced	16.0.R1
Notes	This element is part of a list key

dscp (*keyword* | *number*)

Context	**configure router** *string* **sgt-qos dscp application** *keyword*
Description	DSCP value to the traffic generated by this application
Range	0 to 63
Introduced	16.0.R1

dscp-map [dscp-name] *keyword*

Context	**configure router** *string* **sgt-qos dscp**
Description	Enter the dscp-map context
Introduced	16.0.R3

[dscp-name] *keyword*

Context	**configure router** *string* **sgt-qos dscp dscp-map** *keyword*
Description	DSCP name mapped to forwarding class
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R2
Notes	This element is part of a list key

fc *keyword*

Context	**configure router** *string* **sgt-qos dscp dscp-map** *keyword*
Description	Value for the forwarding class for this mapping
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R2

static-routes

Context	**configure router** *string*
Description	Enter the static-routes context
Introduced	16.0.R1

hold-down

Context	**configure router** *string* **static-routes**
Description	Enter the hold-down context
Introduced	16.0.R1

initial *number*

Context	**configure router** *string* **static-routes hold-down**
Description	Value for the initial hold down time
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

max-value *number*

Context	**configure router** *string* **static-routes hold-down**
Description	Maximum value of the hold down time
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

multiplier *number*

Context	**configure router** *string* **static-routes hold-down**
Description	Value by which the previous hold-down time is multiplied to calculate the new one
Range	1 to 10
Introduced	16.0.R1
Notes	This element is mandatory

route [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*) route-type *keyword*

Context	**configure router** *string* **static-routes**
Description	Enter the route context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	IP prefix and prefix length for the static routes
Introduced	16.0.R1
Notes	This element is part of a list key

route-type *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Static route type for unicast or multicast RPF
Options	unicast, multicast
Introduced	16.0.R1
Notes	This element is part of a list key

blackhole

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Enter the blackhole context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Administrative state of the static route next hop
Options	enable, disable
Introduced	16.0.R1

community *community*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Community ID associated with the static route
String Length	1 to 72
Introduced	16.0.R1

description *description-allow-all-white-spaces*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dynamic-bgp *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Derive static route's next-hop from the best BGP route for the exact same IP prefix
Default	false
Introduced	16.0.R1

generate-icmp *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Send ICMP unreachable messages when received packets match a static route with black-hole next-hop
Default	false
Introduced	16.0.R1

metric *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Static route metric
Range	0 to 65535
Default	1
Introduced	16.0.R1

preference *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

tag *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**
Description	Static route tag
Range	1 to max
Introduced	16.0.R1

community *community*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Community ID associated with the static route
String Length	1 to 72
Max. Elements	12
Introduced	16.0.R1
Notes	This element is ordered by user

indirect [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Enter the indirect context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Indirect next hop for static routes
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Administrative state of the static route next hop
Options	enable, disable
Introduced	16.0.R1

community *community*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Community ID associated with the static route
String Length	1 to 72
Introduced	16.0.R1

cpe-check [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the cpe-check context
Max. Elements	1
Introduced	16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address of the target CPE device
Introduced	16.0.R1
Notes	This element is part of a list key

drop-count *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Number of consecutive ping replies that are missed before declaring the CPE down
Range	1 to 255
Default	3
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Time between ICMP pings to the target CPE IP address
Range	1 to 255
Default	1
Units	seconds
Introduced	16.0.R1

log *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Log the transitions between active and inactive based on the CPE connectivity check
Default	false
Introduced	16.0.R1

padding-size *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Padding size for the ICMP ping test packet of the CPE connectivity check
Range	0 to 16384
Default	56
Units	bytes
Introduced	16.0.R1

description *description-allow-all-white-spaces*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination-class *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Destination class for this static route

Range 1 to 255

Introduced 16.0.R1

metric *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **prefix-list**
Description	Static route match condition from prefixes in specified prefix list
Default	any
Options	any, all, none
Introduced	16.0.R1

name *string*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **prefix-list**
Description	Name of a prefix list to match
Reference	configure **policy-options prefix-list** *string*
Introduced	16.0.R1

qos

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Enter the qos context
Introduced	16.0.R1

forwarding-class *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **qos**
Description	Forwarding class associated with the static route
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1

priority *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **qos**
Description	Static route priority
Options	low, high
Introduced	16.0.R1

source-class *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Static route tag

Range 1 to max

Introduced 16.0.R1

tunnel-next-hop

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the tunnel-next-hop context

Introduced 16.0.R1

disallow-igp *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop**

Description Do not resolve indirect static routes using IGP next-hops in RTM if no tunnel next-hops found in TTM

Default false

Introduced 16.0.R1

resolution *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop**

Description Tunnel next hop resolution to resolve indirect static route

Default none

Options none, filter, any

Introduced 16.0.R1

resolution-filter

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop**

Description Enter the resolution-filter context

Introduced 16.0.R1

ldp *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Use LDP Route Forwarding Equivalence Class (FEC) tunneling for next-hop resolution

Default false

Introduced 16.0.R1

mpls-fwd-policy *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Enable/disable setting MPLS Forwarding Policy type for tunnel-next-hop.

Default false

Introduced 16.0.R1

rib-api *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Enable/disable setting RIB API type for tunnel-next-hop.

Default false

Introduced 16.0.R4

rsvp-te

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Enter the rsvp-te context

Introduced 16.0.R1

lsp [lsp-name] *string*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter rsvp-te**

Description Enter the lsp context

Introduced 16.0.R1

[lsp-name] *string*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter rsvp-te lsp** *string*

Description Labeled Switch Path name

String Length 1 to 64

Introduced 16.0.R1

Notes This element is part of a list key

sr-isis *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Use the SR ISIS tunneling mechanism to resolve next hop for the static route

Default false

Introduced 16.0.R1

sr-ospf *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Use SR OSPF tunneling for next-hop resolution

Default false

Introduced 16.0.R1

sr-te

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter**

Description Enter the sr-te context

Introduced 16.0.R1

lsp [lsp-name] *string*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter sr-te**
Description	Enter the lsp context
Introduced	16.0.R1

[lsp-name] *string*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **tunnel-next-hop resolution-filter sr-te lsp** *string*
Description	Labeled Switch Path name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

interface [interface-name] *interface-name*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Administrative state of the static route next hop
Options	enable, disable
Introduced	16.0.R1

community *community*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Community ID associated with the static route
String Length	1 to 72
Introduced	16.0.R1

cpe-check [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Enter the cpe-check context
Max. Elements	1
Introduced	16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address of the target CPE device
Introduced	16.0.R1
Notes	This element is part of a list key

drop-count *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Number of consecutive ping replies that are missed before declaring the CPE down
Range	1 to 255
Default	3
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Time between ICMP pings to the target CPE IP address
Range	1 to 255
Default	1
Units	seconds
Introduced	16.0.R1

log *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Log the transitions between active and inactive based on the CPE connectivity check
Default	false
Introduced	16.0.R1

padding-size *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Padding size for the ICMP ping test packet of the CPE connectivity check
Range	0 to 16384
Default	56
Units	bytes
Introduced	16.0.R1

description *description-allow-all-white-spaces*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination-class *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Destination class for this static route

Range 1 to 255

Introduced 16.0.R1

load-balancing-weight *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Load-balancing weight for all of the ECMP next hops

Range 1 to max

Introduced 16.0.R1

metric *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

qos

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Enter the qos context

Introduced 16.0.R1

forwarding-class *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **qos**

Description Forwarding class associated with the static route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **qos**

Description Static route priority

Options low, high

Introduced 16.0.R1

source-class *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Static route tag

Range 1 to max

Introduced 16.0.R1

next-hop [ip-address] (*ipv4-address* | *ipv6-address*)

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Enter the next-hop context

Introduced 16.0.R1

[ip-address] (*ipv4-address* | *ipv6-address*)

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description IP address for the next hop

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Administrative state of the static route next hop
Options	enable, disable
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Use Bidirectional Forwarding Detection on this static route
Default	false
Introduced	16.0.R1

community *community*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Community ID associated with the static route
String Length	1 to 72
Introduced	16.0.R1

cpe-check [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Enter the cpe-check context
Max. Elements	1
Introduced	16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address of the target CPE device
Introduced	16.0.R1
Notes	This element is part of a list key

drop-count *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Number of consecutive ping replies that are missed before declaring the CPE down
Range	1 to 255
Default	3
Introduced	16.0.R1

interval *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Time between ICMP pings to the target CPE IP address
Range	1 to 255
Default	1
Units	seconds
Introduced	16.0.R1

log *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Log the transitions between active and inactive based on the CPE connectivity check
Default	false
Introduced	16.0.R1

padding-size *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Padding size for the ICMP ping test packet of the CPE connectivity check
Range	0 to 16384
Default	56
Units	bytes
Introduced	16.0.R1

description *description-allow-all-white-spaces*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination-class *number*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Destination class for this static route
Range	1 to 255
Introduced	16.0.R1

ldp-sync *boolean*

Context	**configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Use LDP synchronization feature for a static route
Default	false
Introduced	16.0.R1

load-balancing-weight *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Load-balancing weight for all of the ECMP next hops

Range 1 to max

Introduced 16.0.R1

metric *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

qos

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Enter the qos context

Introduced 16.0.R1

forwarding-class *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **qos**

Description Forwarding class associated with the static route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **qos**

Description Static route priority

Options low, high

Introduced 16.0.R1

source-class *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Static route tag

Range 1 to max

Introduced 16.0.R1

validate-next-hop *boolean*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Track the state of the next hop in the IPv4 ARP Cache or the IPv6 Neighbor Cache

Default false

Introduced 16.0.R1

tag *number*

Context **configure router** *string* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Static route tag

Range 1 to max

Introduced 16.0.R1

triggered-policy *boolean*

Context **configure router** *string*

Description Trigger route policy re-evaluation

Default false

Introduced 16.0.R1

ttl-propagate

Context	**configure router** *string*
Description	Enter the ttl-propagate context
Introduced	16.0.R1

label-route-local *keyword*

Context	**configure router** *string* **ttl-propagate**
Description	TTL propagation from IP header into label stack for local packets
Default	none
Options	none, all
Introduced	16.0.R1

label-route-transit *keyword*

Context	**configure router** *string* **ttl-propagate**
Description	TTL propagation from IP header into label stack for transit packets
Default	none
Options	none, all
Introduced	16.0.R1

lsr-label-route *keyword*

Context	**configure router** *string* **ttl-propagate**
Description	TTL propagation from IP header into label stack
Default	none
Options	none, all
Introduced	16.0.R1

vprn-local *keyword*

Context	**configure router** *string* **ttl-propagate**
Description	TTL propagation from IP header into label stack for VPRN local packets
Default	vc-only
Options	none, all, vc-only
Introduced	16.0.R1

vprn-transit *keyword*

Context	**configure router** *string* **ttl-propagate**
Description	TTL propagation from IP header into label stack for VPRN transit packets
Default	vc-only
Options	none, all, vc-only
Introduced	16.0.R1

tunnel-interface

Context	**configure router** *string*
Description	Enter the tunnel-interface context
Introduced	16.0.R1

ldp-p2mp-leaf [p2mp-id] *number* **sender-address** *ipv4-unicast-address*

Context	**configure router** *string* **tunnel-interface**
Description	Enter the ldp-p2mp-leaf context
Introduced	16.0.R1

[p2mp-id] *number*

Context	**configure router** *string* **tunnel-interface ldp-p2mp-leaf** *number* **sender-address** *ipv4-unicast-address*
Description	Identifier used for signaling MLDP P2MP LSP
Introduced	16.0.R1
Notes	This element is part of a list key

sender-address *ipv4-unicast-address*

Context	**configure router** *string* **tunnel-interface ldp-p2mp-leaf** *number* **sender-address** *ipv4-unicast-address*
Description	Address of an LDP sender for the P2MP RSVP tunnel interface instance
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context **configure router** *string* **tunnel-interface ldp-p2mp-leaf** *number* **sender-address** *ipv4-unicast-address*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

ldp-p2mp-root [p2mp-id] *number* **sender-address** *ipv4-unicast-address*

Context **configure router** *string* **tunnel-interface**

Description Enter the ldp-p2mp-root context

Introduced 16.0.R1

[p2mp-id] *number*

Context **configure router** *string* **tunnel-interface ldp-p2mp-root** *number* **sender-address** *ipv4-unicast-address*

Description Identifier used for signaling MLDP P2MP LSP

Range 1 to 8192

Introduced 16.0.R1

Notes This element is part of a list key

sender-address *ipv4-unicast-address*

Context **configure router** *string* **tunnel-interface ldp-p2mp-root** *number* **sender-address** *ipv4-unicast-address*

Description Address of an LDP sender for the P2MP RSVP tunnel interface instance

Introduced 16.0.R1

Notes This element is part of a list key

description *string*

Context **configure router** *string* **tunnel-interface ldp-p2mp-root** *number* **sender-address** *ipv4-unicast-address*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

rsvp-p2mp-leaf [lsp-name] *string* **sender-address** *ipv4-unicast-address*

Context	**configure router** *string* **tunnel-interface**
Description	Enter the rsvp-p2mp-leaf context
Introduced	16.0.R1

[lsp-name] *string*

Context	**configure router** *string* **tunnel-interface rsvp-p2mp-leaf** *string* **sender-address** *ipv4-unicast-address*
Description	LSP name of the P2MP RSVP tunnel interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

sender-address *ipv4-unicast-address*

Context	**configure router** *string* **tunnel-interface rsvp-p2mp-leaf** *string* **sender-address** *ipv4-unicast-address*
Description	Address of a sender for the P2MP RSVP tunnel interface instance
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **tunnel-interface rsvp-p2mp-leaf** *string* **sender-address** *ipv4-unicast-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

rsvp-p2mp-root [lsp-name] *string*

Context	**configure router** *string* **tunnel-interface**
Description	Enter the rsvp-p2mp-root context
Introduced	16.0.R1

[lsp-name] *string*

Context	**configure router** *string* **tunnel-interface rsvp-p2mp-root** *string*
Description	LSP name of the P2MP RSVP tunnel interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **tunnel-interface rsvp-p2mp-root** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

twamp-light

Context	**configure router** *string*
Description	Enter the twamp-light context
Introduced	16.0.R1

reflector

Context	**configure router** *string* **twamp-light**
Description	Enter the reflector context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **twamp-light reflector**
Description	Administratively enable or disable TWAMP-Light reflector
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure router** *string* **twamp-light reflector**
Description	Descriptive text for the specified TWAMP-Light reflector
String Length	1 to 80
Introduced	16.0.R1

prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **twamp-light reflector**
Description	Enter the prefix context
Max. Elements	50
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure router** *string* **twamp-light reflector prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Source prefix for the TWAMP-Light reflector
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure router** *string* **twamp-light reflector prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Descriptive text for the specified TWAMP-Light reflector prefix
String Length	1 to 80
Introduced	16.0.R1

udp-port *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **twamp-light reflector**
Description	UDP port on which the specified TWAMP-Light reflector listens for TWAMP PDUs
Range	862 | 64364 to 64373
Introduced	16.0.R1
Notes	This element is mandatory

vrgw

Context	**configure router** *string*
Description	Enter the vrgw context
Introduced	16.0.R1

lanext

Context	**configure router** *string* **vrgw**
Description	Enter the lanext context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **vrgw lanext**
Description	Administrative state of Home LAN Extension
Default	disable
Options	enable, disable
Introduced	16.0.R4

vxlan-port *number*

Context	**configure router** *string* **vrgw lanext**
Description	UDP port to be used by local or remote VXLAN VTEP
Range	4789 | 8472
Default	4789
Introduced	16.0.R1

vxlan-vtep-range

Context	**configure router** *string* **vrgw lanext**
Description	Enter the vxlan-vtep-range context
Introduced	16.0.R1

end (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **vrgw lanext vxlan-vtep-range**
Description	End address of this range
Introduced	16.0.R1

start (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **vrgw lanext vxlan-vtep-range**
Description	Start address of this range
Introduced	16.0.R1

wlan-gw-group *string*

Context	**configure router** *string* **vrgw lanext**
Description	WLAN-GW group used for Home LAN Extension
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

weighted-ecmp *boolean*

Context	**configure router** *string*
Description	Allow weighted load-balancing
Default	false
Introduced	16.0.R1

wlan-gw

Context	**configure router** *string*
Description	Enter the wlan-gw context
Introduced	16.0.R1

distributed-subscriber-mgmt

Context	**configure router** *string* **wlan-gw**
Description	Enter the distributed-subscriber-mgmt context
Introduced	16.0.R4

ipv6-tcp-mss-adjust *number*

Context	**configure router** *string* **wlan-gw distributed-subscriber-mgmt**
Description	Insert or decrease the TCP Maximum Segment Size option to this value for upstream IPv6 SYN messages
Range	160 to 10240
Introduced	16.0.R4

mobility-triggered-accounting

Context	**configure router** *string* **wlan-gw**
Description	Enter the mobility-triggered-accounting context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure router** *string* **wlan-gw mobility-triggered-accounting**
Description	Administrative state of mobility-triggered-accounting
Default	disable
Options	enable, disable
Introduced	16.0.R4

hold-down *number*

Context	**configure router** *string* **wlan-gw mobility-triggered-accounting**
Description	Hold additional mobility-triggered update until this timer expires
Range	60 to 86400
Units	seconds
Introduced	16.0.R4

include-counters *boolean*

Context	**configure router** *string* **wlan-gw mobility-triggered-accounting**
Description	Include counters in interim updates
Default	false
Introduced	16.0.R4

xconnect

Context	**configure router** *string* **wlan-gw**
Description	Enter the xconnect context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **wlan-gw xconnect**
Description	Administrative state of WLAN-GW cross-connect
Default	disable
Options	enable, disable
Introduced	16.0.R1

tunnel-source-ip *ipv6-prefix*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **wlan-gw xconnect**
Description	IPv6 address and prefix for the tunnel source
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure router** *string* **wlan-gw xconnect**
Description	ISA WLAN Gateway group
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

wpp

Context	**configure router** *string*
Description	Enter the wpp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure router** *string* **wpp**
Description	Administrative state of WPP
Default	disable
Options	enable, disable
Introduced	16.0.R1

portal [name] *string*

Context	**configure router** *string* **wpp**
Description	Enter the portal context
Introduced	16.0.R1

[name] *string*

Context	**configure router** *string* **wpp portal** *string*
Description	WPP portal name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

ack-auth-retry-count *number*

Context	**configure router** *string* **wpp portal** *string*
Description	Number of retransmissions of an ACK_OUT message
Range	0 to 5
Default	5
Introduced	16.0.R1

address *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure router** *string* **wpp portal** *string*
Description	WPP portal address
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure router** *string* **wpp portal** *string*
Description	Administrative state of the WPP portal
Default	disable
Options	enable, disable
Introduced	16.0.R1

ntf-logout-retry-count *number*

Context	**configure router** *string* **wpp portal** *string*
Description	Number of retransmissions of an NTF_LOGOUT message
Range	0 to 5
Default	5
Introduced	16.0.R1

port-format *keyword*

Context	**configure router** *string* **wpp portal** *string*
Description	Format of the port in the ACK_INO message
Default	standard
Options	standard, vendor-specific
Introduced	16.0.R1

retry-interval *number*

Context	**configure router** *string* **wpp portal** *string*
Description	Time between two consecutive retransmissions
Range	10 to 2000
Default	2000
Units	milliseconds
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure router** *string* **wpp portal** *string*
Description	Message authentication between portal and BRAS by applying the secret used by WPPv2
String Length	1 to 114
Introduced	16.0.R1

version *number*

Context	**configure router** *string* **wpp portal** *string*
Description	Protocol version to be expected by the WPP portal
Range	1 | 2
Default	1
Introduced	16.0.R1

33 routing-options Commands

configure
- — **routing-options**
  - — **admin-tags**
    - — **admin-tag** *string*
    - — **route-admin-tag-policy** *string*
      - — **exclude** *string*
      - — **include** *string*
  - — **if-attribute**
    - — **admin-group** *string*
      - — **value** *number*
    - — **srlg-group** *string*
      - — **penalty-weight** *number*
      - — **value** *number*
  - — **ip-fast-reroute** *boolean*
  - — **route-next-hop-policy**
    - — **template** *string*
      - — **description** *string*
      - — **exclude-group** *string*
      - — **include-group** *string*
        - — **preference** *number*
      - — **nh-type** *keyword*
      - — **protection-type** *keyword*
      - — **srlg** *boolean*

33.1 routing-options Command Descriptions

routing-options

Context	**configure**
Description	Enter the routing-options context
Introduced	16.0.R1

admin-tags

Context	**configure routing-options**
Description	Enter the admin-tags context
Introduced	16.0.R1

admin-tag [tag] *string*

Context	**configure routing-options admin-tags**
Description	Enter the admin-tag context
Max. Elements	256
Introduced	16.0.R1

[tag] *string*

Context	**configure routing-options admin-tags admin-tag** *string*
Description	Specifies admin-tag.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

route-admin-tag-policy [policy-name] *string*

Context	**configure routing-options admin-tags**
Description	Enter the route-admin-tag-policy context
Max. Elements	2048
Introduced	16.0.R1

[policy-name] *string*

Context	**configure routing-options admin-tags route-admin-tag-policy** *string*
Description	Policy name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

exclude [tag] *string*

Context	**configure routing-options admin-tags route-admin-tag-policy** *string*
Description	Enter the exclude context
Max. Elements	8
Introduced	16.0.R1

[tag] *string*

Context	**configure routing-options admin-tags route-admin-tag-policy** *string* **exclude** *string*
Description	Specifies admin-tag.
Reference	configure **routing-options admin-tags admin-tag** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

include [tag] *string*

Context	**configure routing-options admin-tags route-admin-tag-policy** *string*
Description	Enter the include context
Max. Elements	8
Introduced	16.0.R1

[tag] *string*

Context	**configure routing-options admin-tags route-admin-tag-policy** *string* **include** *string*
Description	Specifies admin-tag.
Reference	configure **routing-options admin-tags admin-tag** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

if-attribute

Context	**configure routing-options**
Description	Enter the if-attribute context
Introduced	16.0.R1

admin-group [group-name] *string*

Context	**configure routing-options if-attribute**
Description	Enter the admin-group context
Max. Elements	32
Introduced	16.0.R1

[group-name] *string*

Context	**configure routing-options if-attribute admin-group** *string*
Description	Specifies interface admin group name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

value *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure routing-options if-attribute admin-group** *string*
Description	Specifies the group value associated with this administrative group.
Range	0 to 31
Introduced	16.0.R1
Notes	This element is mandatory

srlg-group [name] *string*

Context	**configure routing-options if-attribute**
Description	Enter the srlg-group context
Max. Elements	1024
Introduced	16.0.R1

[name] *string*

Context	**configure routing-options if-attribute srlg-group** *string*
Description	Specifies a name defined for the Shared Risk Link Group (SRLG).
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

penalty-weight *number*

Context	**configure routing-options if-attribute srlg-group** *string*
Description	Specifies the penalty weight associated with this SRLG group.
Range	0 to 65535
Default	0
Introduced	16.0.R1

value *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure routing-options if-attribute srlg-group** *string*
Description	Specifies the group value associated with this SRLG.
Range	0 to 4294967295
Introduced	16.0.R1
Notes	This element is mandatory

ip-fast-reroute *boolean*

Context	**configure routing-options**
Description	Enable IP fast reroute capability
Default	false
Introduced	16.0.R1

route-next-hop-policy

Context	**configure routing-options**
Description	Enter the route-next-hop-policy context
Introduced	16.0.R1

template [template-name] *string*

Context	**configure routing-options route-next-hop-policy**
Description	Enter the template context
Introduced	16.0.R1

[template-name] *string*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Template name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

exclude-group [group-name] *string*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Enter the exclude-group context
Max. Elements	32
Introduced	16.0.R1

[group-name] *string*

Context	**configure routing-options route-next-hop-policy template** *string* **exclude-group** *string*
Description	Group name out of which the next-hop link is selected
Reference	configure **routing-options if-attribute admin-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

include-group [group-name] *string*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Enter the include-group context
Max. Elements	32
Introduced	16.0.R1

[group-name] *string*

Context	**configure routing-options route-next-hop-policy template** *string* **include-group** *string*
Description	Group name out of which the next-hop link is selected
Reference	configure **routing-options if-attribute admin-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

preference *number*

Context	**configure routing-options route-next-hop-policy template** *string* **include-group** *string*
Description	Preference number for configured admin-group.
Range	1 to 255
Default	255
Introduced	16.0.R1

nh-type *keyword*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Preferred next hop
Default	ip
Options	ip, tunnel
Introduced	16.0.R1

protection-type *keyword*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Protection type used
Default	node
Options	link, node
Introduced	16.0.R1

srlg *boolean*

Context	**configure routing-options route-next-hop-policy template** *string*
Description	Select next hops from the SRLG
Default	false
Introduced	16.0.R1

34 saa Commands

configure
- **saa**
  - **owner** *string* **test** *string*
    - **accounting-policy** *string*
    - **admin-state** *keyword*
    - **continuous** *boolean*
    - **description** *string*
    - **jitter-event** *keyword* **threshold-type** *keyword*
      - **threshold** *number*
    - **latency-event** *keyword* **threshold-type** *keyword*
      - **threshold** *number*
    - **loss-event** *keyword* **threshold-type** *keyword*
      - **threshold** *number*
    - **probe-history** *keyword*
    - **type**
      - **icmp-ping**
        - **bypass-routing** *boolean*
        - **count** *number*
        - **destination-address** (*union* | *string*)
        - **do-not-fragment** *boolean*
        - **interface** *interface-name*
        - **interval** (*number* | *decimal-number*)
        - **next-hop-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **pattern** (*keyword* | *number*)
        - **qos**
          - **fc** *keyword*
          - **tos** *number*
        - **router-instance** *router-instance*
        - **size** *number*
        - **source-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **timeout** *number*
        - **ttl** *number*

34.1 saa Command Descriptions

saa

Context	**configure**
Description	Enter the saa context
Introduced	16.0.R1

owner [owner-name] *string* test *string*

Context	**configure saa**
Description	Enter the owner context
Introduced	16.0.R1

[owner-name] *string*

Context	**configure saa owner** *string* **test** *string*
Description	An owner-name identifies a set of SAA tests.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

test *string*

Context	**configure saa owner** *string* **test** *string*
Description	An owner-name and a test-name identify an SAA test.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure saa owner** *string* **test** *string*
Description	Accounting policy used to record the results of an SAA test.
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure saa owner** *string* **test** *string*
Description	Administrative state of the test.
Default	disable
Options	enable, disable
Introduced	16.0.R1

continuous *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure saa owner** *string* **test** *string*
Description	Repeat the test automatically while it is administratively enabled.
Default	false
Introduced	16.0.R1

description *string*

Context	**configure saa owner** *string* **test** *string*
Description	Text description of the test.
String Length	1 to 80
Introduced	16.0.R1

jitter-event [direction] *keyword* **threshold-type** *keyword*

Context	**configure saa owner** *string* **test** *string*
Description	Enter the jitter-event context
Introduced	16.0.R1

[direction] *keyword*

Context	**configure saa owner** *string* **test** *string* **jitter-event** *keyword* **threshold-type** *keyword*
Description	Inbound, outbound, or round trip packet flow.
Options	inbound, outbound, round-trip
Introduced	16.0.R1
Notes	This element is part of a list key

threshold-type *keyword*

Context	**configure saa owner** *string* **test** *string* **jitter-event** *keyword* **threshold-type** *keyword*
Description	Rising or falling threshold.
Options	rising, falling
Introduced	16.0.R1
Notes	This element is part of a list key

threshold *number*

Context	**configure saa owner** *string* **test** *string* **jitter-event** *keyword* **threshold-type** *keyword*
Description	Rising or falling threshold (in microseconds) for jitter.
Range	0 to 2147483647
Units	microseconds
Introduced	16.0.R1
Notes	This element is mandatory

latency-event [direction] *keyword* **threshold-type** *keyword*

Context	**configure saa owner** *string* **test** *string*
Description	Enter the latency-event context
Introduced	16.0.R1

[direction] *keyword*

Context	**configure saa owner** *string* **test** *string* **latency-event** *keyword* **threshold-type** *keyword*
Description	Inbound, outbound, or round trip packet flow.
Options	inbound, outbound, round-trip
Introduced	16.0.R1
Notes	This element is part of a list key

threshold-type *keyword*

Context	**configure saa owner** *string* **test** *string* **latency-event** *keyword* **threshold-type** *keyword*
Description	Rising or falling threshold.
Options	rising, falling
Introduced	16.0.R1
Notes	This element is part of a list key

threshold *number*

Context	**configure saa owner** *string* **test** *string* **latency-event** *keyword* **threshold-type** *keyword*
Description	Rising or falling threshold (in microseconds) for packet latency.
Range	0 to 2147483647
Units	microseconds
Introduced	16.0.R1
Notes	This element is mandatory

loss-event [direction] *keyword* **threshold-type** *keyword*

Context	**configure saa owner** *string* **test** *string*
Description	Enter the loss-event context
Introduced	16.0.R1

[direction] *keyword*

Context	**configure saa owner** *string* **test** *string* **loss-event** *keyword* **threshold-type** *keyword*
Description	Inbound, outbound, or round trip packet flow.
Options	inbound, outbound, round-trip
Introduced	16.0.R1
Notes	This element is part of a list key

threshold-type *keyword*

Context	**configure saa owner** *string* **test** *string* **loss-event** *keyword* **threshold-type** *keyword*
Description	Rising or falling threshold.
Options	rising, falling
Introduced	16.0.R1
Notes	This element is part of a list key

threshold *number*

Context	**configure saa owner** *string* **test** *string* **loss-event** *keyword* **threshold-type** *keyword*
Description	Rising or falling threshold for packet loss.
Range	0 to 2147483647
Units	packets
Introduced	16.0.R1
Notes	This element is mandatory

probe-history *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure saa owner** *string* **test** *string*
Description	Keep or drop the per-probe test results after a test run completes. 'auto' allows SROS to decide.
Default	auto
Options	keep, drop, auto
Introduced	16.0.R1

type

Context	**configure saa owner** *string* **test** *string*
Description	Enter the type context
Introduced	16.0.R1

icmp-ping

Context	**configure saa owner** *string* **test** *string* **type**
Description	Enter the **icmp-ping** context
Introduced	16.0.R1

bypass-routing *boolean*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Bypass the routing table when sending to a host on a directly attached network.
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

count *number*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Number of ICMP Echo Request packet(s) to send.
Range	1 to 100000
Default	5
Units	packets
Introduced	16.0.R1
Notes	This element is part of a choice

destination-address (*union* | *string*)

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	IP address or DNS name to be pinged.
String Length	1 to 128
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

do-not-fragment *boolean*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Do not allow the ICMP Echo Request packet(s) to be fragmented (valid for IPv4 only).
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

interface *interface-name*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Sending interface for the ICMP Echo Request packet(s).
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

interval (*number* | *decimal-number*)

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Interval (in seconds) between ICMP Echo Request packets sent.
Range	1 to 10000
Default	1
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

next-hop-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Next hop IP address used when sending ICMP Echo Request packet(s).
Introduced	16.0.R1
Notes	This element is part of a choice

pattern (*keyword* | *number*)

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Two byte value used to pad the ICMP Echo Request packet(s). 'sequential' indicates bytes increasing by one.
Range	0 to 65535
Default	sequential
Options	sequential
Introduced	16.0.R1
Notes	This element is part of a choice

qos

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Enter the **qos** context
Introduced	16.0.R1

fc *keyword*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping qos**
Description	Forwarding Class for the transmitted ICMP Echo Request packet(s).
Default	nc
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a choice

tos *number*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping qos**
Description	Type of Service value to be loaded into the DSCP and ECN fields of the IP header of the ICMP Echo Request packet(s).
Range	0 to 255
Default	0
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *router-instance*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Router used for the test ('Base', 'management', or a VPRN service name).
String Length	1 to 64
Default	Base
Introduced	16.0.R1
Notes	This element is part of a choice

size *number*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Number of bytes in the combined ICMP Header (8 bytes) and ICMP Payload (variable size) of the ICMP Echo Request packet(s).
Range	0 to 16384
Default	56
Units	bytes
Introduced	16.0.R1
Notes	This element is part of a choice

source-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Source IP address to be loaded into the IP header of the ICMP Echo Request packet(s). Default: a system-selected address.
Introduced	16.0.R1
Notes	This element is part of a choice

timeout *number*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Maximum time (in seconds) to wait for ICMP Echo Reply packet(s). The timer is started when the last ICMP Echo Request is sent.
Range	1 to 10
Default	5
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

ttl *number*

Context	**configure saa owner** *string* **test** *string* **type icmp-ping**
Description	Time To Live value (IPv4) or Hop Limit value (IPv6) to be loaded into the IP header of the ICMP Echo Request packet(s).
Range	1 to 128
Default	64
Introduced	16.0.R1
Notes	This element is part of a choice

35 service Commands

configure
- **service**
  - **customer** *customer-name*
    - **contact** *string*
    - **customer-id** *number*
    - **description** *string*
    - **multi-service-site** *string*
      - **assignment**
        - **card** *number*
        - **port** *port*
      - **description** *string*
      - **egress**
        - **agg-rate**
          - **limit-unused-bandwidth** *boolean*
          - **queue-frame-based-accounting** *boolean*
          - **rate** *number*
        - **policer-control-policy** *string*
        - **scheduler-policy**
          - **overrides**
            - **scheduler** *string*
              - **parent**
                - **cir-weight** *number*
                - **weight** *number*
              - **rate**
                - **cir** (*number* | *keyword*)
                - **pir** (*number* | *keyword*)
          - **policy-name** *string*
      - **ingress**
        - **policer-control-policy** *string*
        - **scheduler-policy**
          - **overrides**
            - **scheduler** *string*
              - **parent**
                - **cir-weight** *number*
                - **weight** *number*
              - **rate**
                - **cir** (*number* | *keyword*)
                - **pir** (*number* | *keyword*)
          - **policy-name** *string*
    - **phone** *string*
  - **epipe** *service-name*
    - **admin-state** *keyword*
    - **bgp** *number*
      - **pw-template-binding** *string*
        - **bfd-liveness** *boolean*
        - **bfd-template** *string*
        - **import-rt** *route-target*
      - **route-distinguisher** (*keyword* | *vpn-route-distinguisher*)
      - **route-target**
        - **export** *route-target*

```
        — import route-target
    — bgp-evpn
        — evi number
        — local-ac
            — eth-tag number
            — name string
        — mpls number
            — admin-state keyword
            — auto-bind-tunnel
                — enforce-strict-tunnel-tagging boolean
                — resolution keyword
                — resolution-filter
                    — bgp boolean
                    — ldp boolean
                    — rsvp boolean
                    — sr-isis boolean
                    — sr-ospf boolean
                    — sr-te boolean
                    — udp boolean
            — control-word boolean
            — default-route-tag one-byte-value
            — ecmp number
            — endpoint
                — name string
            — entropy-label boolean
            — force-vc-forwarding keyword
            — send-tunnel-encap
                — mpls boolean
                — mpls-over-udp boolean
        — remote-ac
            — eth-tag number
            — name string
        — vxlan number
            — admin-state keyword
            — default-route-tag one-byte-value
            — ecmp number
            — send-tunnel-encap boolean
            — vxlan-instance string
    — bgp-mh-site string
        — activation-timer number
        — admin-state keyword
        — boot-timer number
        — id number
        — min-down-timer number
        — preference number
        — sap sap
    — bgp-vpws
        — admin-state keyword
        — local-ve
            — id number
            — name string
        — remote-ve string
            — id number
    — customer string
```

- **description** *string*
- **endpoint** *string*
  - **description** *string*
  - **hold-time-active** *number*
  - **revert-time** (*number* | *keyword*)
  - **standby-signaling** *keyword*
- **load-balancing**
  - **per-service-hashing** *boolean*
- **nat-outside** *number*
  - **admin-state** *keyword*
- **oper-group** *string*
- **pbb**
  - **force-qtag-forwarding** *boolean*
  - **tunnel**
    - **backbone-dest-mac** *mac-unicast-address-no-zero*
    - **backbone-dest-mac-name** *string*
    - **backbone-vpls-service-name** *string*
    - **isid** *number*
- **sap** *sap*
  - **accounting-policy** *string*
  - **admin-state** *keyword*
  - **bandwidth** *number*
  - **cflowd** *boolean*
  - **collect-stats** *boolean*
  - **cpu-protection**
    - **eth-cfm-monitoring**
      - **aggregate**
      - **car**
    - **mac-monitoring**
    - **policy-id** *string*
  - **description** *string*
  - **dist-cpu-protection** *string*
  - **egress**
    - **agg-rate**
      - **limit-unused-bandwidth** *boolean*
      - **queue-frame-based-accounting** *boolean*
      - **rate** *number*
    - **filter**
      - **ip** *string*
      - **ipv6** *string*
      - **mac** *string*
    - **qos**
      - **policer-control-policy**
        - **overrides**
          - **root**
            - **max-rate** (*number* | *keyword*)
            - **priority-mbs-thresholds**
              - **min-thresh-separation** (*number* | *keyword*)
              - **priority** *number*
                - **mbs-contribution** (*number* | *keyword*)
        - **policy-name** *string*
      - **qinq-mark-top-only** *boolean*
      - **sap-egress**
        - **overrides**

- — **hs-secondary-shaper** *string*
- — **hs-wrr-group** *string*
  - — **hs-class-weight** *number*
  - — **percent-rate** *decimal-number*
  - — **rate** (*number* | *keyword*)
- — **hsmda-queues**
  - — **packet-byte-offset** *number*
  - — **queue** *string*
    - — **mbs** (*number* | *keyword*)
    - — **rate** (*number* | *keyword*)
    - — **slope-policy** *string*
    - — **wrr-weight** *number*
  - — **secondary-shaper** *string*
  - — **wrr-policy** *string*
- — **policer** *string*
  - — **cbs** (*number* | *keyword*)
  - — **mbs** (*number* | *keyword*)
  - — **packet-byte-offset** *number*
  - — **percent-rate**
    - — **cir** *decimal-number*
    - — **pir** *decimal-number*
  - — **rate**
    - — **cir** (*number* | *keyword*)
    - — **pir** (*number* | *keyword*)
  - — **stat-mode** *keyword*
- — **queue** *string*
  - — **adaptation-rule**
    - — **cir** *keyword*
    - — **pir** *keyword*
  - — **avg-frame-overhead** *decimal-number*
  - — **burst-limit** (*number* | *keyword*)
  - — **cbs** (*number* | *keyword*)
  - — **drop-tail**
    - — **low**
      - — **percent-reduction-from-mbs** (*number* | *keyword*)
  - — **hs-class-weight** *number*
  - — **hs-wred-queue**
    - — **policy** *string*
  - — **hs-wrr-weight** *number*
  - — **mbs** (*number* | *keyword*)
  - — **monitor-depth** *boolean*
  - — **parent**
    - — **cir-weight** *number*
    - — **weight** *number*
  - — **percent-rate**
    - — **cir** *decimal-number*
    - — **pir** *decimal-number*
  - — **rate**
    - — **cir** (*number* | *keyword*)
    - — **pir** (*number* | *keyword*)
- — **policy-name** *string*
- — **port-redirect-group**
  - — **group-name** *string*
  - — **instance** *number*

```
        — scheduler-policy
            — overrides
                — scheduler string
                    — parent
                        — cir-weight number
                        — weight number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
            — policy-name string
    — endpoint string
    — eth-cfm
        — ais boolean
        — collect-lmm-fc-stats
            — fc keyword
            — fc-in-profile keyword
        — collect-lmm-stats boolean
        — mep md-admin-name string ma-admin-name string mep-id number
            — admin-state keyword
            — ais
                — client-meg-level number
                — interface-support boolean
                — interval number
                — low-priority-defect keyword
                — priority number
            — alarm-notification
                — fng-alarm-time number
                — fng-reset-time number
            — ccm boolean
            — ccm-ltm-priority number
            — ccm-padding-size number
            — csf
                — multiplier decimal-number
            — description string
            — direction keyword
            — eth-test
                — bit-error-threshold number
                — test-pattern
                    — crc-tlv boolean
                    — pattern keyword
            — fault-propagation keyword
            — grace
                — eth-ed
                    — max-rx-defect-window number
                    — priority number
                    — rx-eth-ed boolean
                    — tx-eth-ed boolean
                — eth-vsm-grace
                    — rx-eth-vsm-grace boolean
                    — tx-eth-vsm-grace boolean
            — lbm-svc-act-responder boolean
            — low-priority-defect keyword
            — mac-address mac-unicast-address
            — one-way-delay-threshold number
```

```
        — primary-vlan boolean
    — squelch-ingress-levels number
— ignore-oper-down boolean
— ingress
    — filter
        — ip string
        — ipv6 string
        — mac string
    — qos
        — match-qinq-dot1p keyword
        — policer-control-policy
            — overrides
                — root
                    — max-rate (number | keyword)
                    — priority-mbs-thresholds
                        — min-thresh-separation (number | keyword)
                        — priority number
                            — mbs-contribution (number | keyword)
            — policy-name string
        — sap-ingress
            — fp-redirect-group
                — group-name string
                — instance number
            — overrides
                — policer string
                    — cbs (number | keyword)
                    — mbs (number | keyword)
                    — packet-byte-offset number
                    — percent-rate
                        — cir decimal-number
                        — pir decimal-number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
                    — stat-mode keyword
                — queue string
                    — adaptation-rule
                        — cir keyword
                        — pir keyword
                    — cbs (number | keyword)
                    — drop-tail
                        — low
                            — percent-reduction-from-mbs (number | keyword)
                    — mbs (number | keyword)
                    — monitor-depth boolean
                    — parent
                        — cir-weight number
                        — weight number
                    — percent-rate
                        — cir decimal-number
                        — pir decimal-number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
```

```
                    — policy-name string
                    — queuing-type keyword
                — scheduler-policy
                    — overrides
                        — scheduler string
                            — parent
                                — cir-weight number
                                — weight number
                            — rate
                                — cir (number | keyword)
                                — pir (number | keyword)
                    — policy-name string
            — qtag-manipulation
                — c-tag number
                — push-dot1q-vlan (number | keyword)
                — s-tag number
        — l2tpv3-session
            — admin-state keyword
            — pseudo-wire
                — ethernet
                — ethernet-vlan-id number
            — router
                — group string
                — router-instance router-instance-base-vprn-loose
            — vc-id number
        — lag
            — link-map-profile number
            — per-link-hash
                — class number
                — weight number
        — mc-ring
            — ring-node string
        — monitor-oper-group string
        — multi-service-site string
        — oper-group string
    — service-id number
    — service-mtu number
    — spoke-sdp sdp-bind-id
        — accounting-policy string
        — admin-state keyword
        — bandwidth (number | keyword)
        — bfd-liveness
            — encap keyword
        — bfd-template string
        — collect-stats boolean
        — control-word boolean
        — cpu-protection
            — eth-cfm-monitoring
                — aggregate
                — car
            — mac-monitoring
            — policy-id string
        — description string
        — egress
```

- **filter**
  - **ip** *string*
  - **ipv6** *string*
  - **mac** *string*
- **l2tpv3**
  - **cookie** *cookie-value*
- **qos**
  - **network**
    - **policy-name** *string*
    - **port-redirect-group**
      - **group-name** *string*
      - **instance** *number*
- **vc-label** *number*

- **endpoint**
  - **icb** *boolean*
  - **name** *string*
  - **precedence** (*number* | *keyword*)
- **entropy-label**
- **eth-cfm**
  - **collect-lmm-fc-stats**
    - **fc** *keyword*
    - **fc-in-profile** *keyword*
  - **collect-lmm-stats** *boolean*
  - **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
    - **admin-state** *keyword*
    - **ais**
      - **client-meg-level** *number*
      - **interface-support** *boolean*
      - **interval** *number*
      - **low-priority-defect** *keyword*
      - **priority** *number*
    - **alarm-notification**
      - **fng-alarm-time** *number*
      - **fng-reset-time** *number*
    - **ccm** *boolean*
    - **ccm-ltm-priority** *number*
    - **ccm-padding-size** *number*
    - **csf**
      - **multiplier** *decimal-number*
    - **description** *string*
    - **direction** *keyword*
    - **eth-test**
      - **bit-error-threshold** *number*
      - **test-pattern**
        - **crc-tlv** *boolean*
        - **pattern** *keyword*
    - **fault-propagation** *keyword*
    - **grace**
      - **eth-ed**
        - **max-rx-defect-window** *number*
        - **priority** *number*
        - **rx-eth-ed** *boolean*
        - **tx-eth-ed** *boolean*
      - **eth-vsm-grace**

```
                        — rx-eth-vsm-grace boolean
                        — tx-eth-vsm-grace boolean
                    — lbm-svc-act-responder boolean
                    — low-priority-defect keyword
                    — mac-address mac-unicast-address
                    — one-way-delay-threshold number
                    — primary-vlan boolean
                — squelch-ingress-levels number
            — force-vc-forwarding keyword
            — hash-label
                — signal-capability
            — ingress
                — filter
                    — ip string
                    — ipv6 string
                    — mac string
                — l2tpv3
                    — cookie
                        — cookie1 cookie-value
                        — cookie2 cookie-value
                — qos
                    — network
                        — fp-redirect-group
                            — group-name string
                            — instance number
                        — policy-name string
                — vc-label number
            — monitor-oper-group string
            — oper-group string
            — pw-status
                — block-on-peer-fault boolean
                — signaling boolean
                — standby-signaling-slave boolean
            — source-bmac
                — use-sdp-bmac-lsb boolean
            — vc-type keyword
            — vlan-vc-tag number
        — test boolean
        — vc-switching boolean
        — vpn-id number
        — vxlan
            — instance number
                — egress-vtep
                    — ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                    — oper-group string
                — vni number
            — source-vtep (ipv4-address-no-zone | ipv6-address-no-zone)
    — ies service-name
        — admin-state keyword
        — customer string
        — description string
        — igmp-host-tracking
            — admin-state keyword
            — expiry-time number
```

```
— interface interface-name
    — admin-state keyword
    — cflowd-parameters
        — sampling keyword
            — direction keyword
            — type keyword
    — cpu-protection string
    — description string
    — hold-time
        — ipv4
            — down
                — init-only boolean
                — seconds number
            — up
                — seconds number
        — ipv6
            — down
                — init-only boolean
                — seconds number
            — up
                — seconds number
    — if-attribute
        — admin-group string
        — srlg-group string
    — ingress-stats boolean
    — ip-mtu number
    — ipv4
        — addresses
            — address ipv4-unicast-address
                — prefix-length number
        — allow-directed-broadcasts boolean
        — bfd
            — admin-state keyword
            — echo-receive number
            — multiplier number
            — receive number
            — transmit-interval number
            — type keyword
        — dhcp
            — admin-state keyword
            — description string
            — gi-address ipv4-unicast-address
            — lease-populate
                — max-leases number
            — option-82
                — action keyword
                — circuit-id
                    — ascii-tuple
                    — ifindex
                    — none
                    — sap-id
                    — vlan-ascii-tuple
                — remote-id
                    — ascii-string string
```

- **mac**
- **none**
- **vendor-specific-option**
- **client-mac-address** *boolean*
- **pool-name** *boolean*
- **sap-id** *boolean*
- **service-id** *boolean*
- **string** *string*
- **system-id** *boolean*
- **proxy-server**
- **admin-state** *keyword*
- **emulated-server** *ipv4-unicast-address*
- **lease-time**
- **radius-override** *boolean*
- **value** *number*
- **python-policy** *string*
- **relay-plain-bootp** *boolean*
- **relay-proxy**
- **release-update-src-ip** *boolean*
- **siaddr-override** *ipv4-unicast-address*
- **server** *ipv4-unicast-address*
- **src-ip-addr** *keyword*
- **trusted** *boolean*
- **use-arp** *boolean*
- **icmp**
- **mask-reply** *boolean*
- **param-problem**
- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **redirects**
- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **ttl-expired**
- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **unreachables**
- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **ip-helper-address** *ipv4-unicast-address*
- **local-dhcp-server** *string*
- **neighbor-discovery**
- **learn-unsolicited** *boolean*
- **limit**
- **log-only** *boolean*
- **max-entries** *number*
- **threshold** *number*
- **local-proxy-arp** *boolean*
- **populate** *boolean*
- **populate-host** *boolean*
- **proactive-refresh** *boolean*

- **proxy-arp-policy** *string*
- **remote-proxy-arp** *boolean*
- **retry-timer** *number*
- **route-tag** *number*
- **static-neighbor** *ipv4-address*
  - **mac-address** *mac-address*
- **static-neighbor-unnumbered**
  - **mac-address** *mac-address*
- **timeout** *number*

- **primary**
  - **address** *ipv4-unicast-address*
  - **broadcast** *keyword*
  - **prefix-length** *number*
  - **track-srrp** *number*
- **qos-route-lookup** *keyword*
- **secondary** *ipv4-unicast-address*
  - **broadcast** *keyword*
  - **igp-inhibit** *boolean*
  - **prefix-length** *number*
  - **track-srrp** *number*
- **tcp-mss** *number*
- **unnumbered**
  - **ip-address** *ipv4-unicast-address*
  - **ip-int-name** *interface-name*
  - **system**
- **urpf-check**
  - **ignore-default** *boolean*
  - **mode** *keyword*
- **vrrp** *number*
  - **admin-state** *keyword*
  - **authentication-key** *encrypted-leaf*
  - **backup** *ipv4-unicast-address*
  - **bfd-liveness**
    - **dest-ip** *ipv4-address*
    - **interface-name** *interface-name*
    - **service-name** *string*
  - **init-delay** *number*
  - **mac** *mac-unicast-address*
  - **master-int-inherit** *boolean*
  - **message-interval** *number*
  - **oper-group** *string*
  - **owner**
  - **passive** *boolean*
  - **ping-reply** *boolean*
  - **policy** *string*
  - **preempt** *boolean*
  - **priority** *number*
  - **ssh-reply** *boolean*
  - **standby-forwarding** *boolean*
  - **telnet-reply** *boolean*
  - **traceroute-reply** *boolean*

- **ipv6**
  - **address** *ipv6-address*
    - **duplicate-address-detection** *boolean*

- **eui-64** *boolean*
- **prefix-length** *number*
- **primary-preference** *number*
- **track-srrp** *number*

bfd
- **admin-state** *keyword*
- **echo-receive** *number*
- **multiplier** *number*
- **receive** *number*
- **transmit-interval** *number*
- **type** *keyword*

dhcp6
- **relay**
  - **admin-state** *keyword*
  - **description** *string*
  - **lease-populate**
    - **max-nbr-of-leases** *number*
    - **route-populate**
      - **na** *boolean*
      - **pd**
        - **exclude** *boolean*
      - **ta** *boolean*
  - **link-address** *ipv6-address*
  - **neighbor-resolution** *boolean*
  - **option**
    - **interface-id**
      - **ascii-tuple**
      - **if-index**
      - **sap-id**
      - **string** *string*
    - **remote-id** *boolean*
  - **python-policy** *string*
  - **server** *ipv6-address-with-zone*
  - **source-address** *ipv6-unicast-or-linklocal-address*
  - **user-db** *string*
- **server**
  - **max-nbr-of-leases** *number*
  - **prefix-delegation**
    - **admin-state** *keyword*
    - **prefix** *ipv6-prefix*
      - **client-id**
        - **duid** *string*
        - **iaid** *number*
      - **preferred-lifetime** (*number* | *keyword*)
      - **valid-lifetime** (*number* | *keyword*)

duplicate-address-detection *boolean*

icmp6
- **packet-too-big**
  - **admin-state** *keyword*
  - **number** *number*
  - **seconds** *number*
- **param-problem**
  - **admin-state** *keyword*
  - **number** *number*

- — **seconds** *number*
- — **redirects**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*
- — **time-exceeded**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*
- — **unreachables**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*
- — **link-local-address**
  - — **address** *ipv6-address*
  - — **duplicate-address-detection** *boolean*
- — **local-dhcp-server** *string*
- — **neighbor-discovery**
  - — **learn-unsolicited** *keyword*
  - — **limit**
    - — **log-only** *boolean*
    - — **max-entries** *number*
    - — **threshold** *number*
  - — **local-proxy-nd** *boolean*
  - — **populate-host** *boolean*
  - — **proactive-refresh** *keyword*
  - — **proxy-nd-policy** *string*
  - — **reachable-time** *number*
  - — **route-tag** *number*
  - — **secure-nd**
    - — **admin-state** *keyword*
    - — **allow-unsecured-msgs** *boolean*
    - — **public-key-min-bits** *number*
    - — **security-parameter** *number*
  - — **stale-time** *number*
  - — **static-neighbor** *ipv6-address*
    - — **mac-address** *mac-address*
- — **qos-route-lookup** *keyword*
- — **tcp-mss** *number*
- — **urpf-check**
  - — **ignore-default** *boolean*
  - — **mode** *keyword*
- — **vrrp** *number*
  - — **admin-state** *keyword*
  - — **backup** *ipv6-address*
  - — **bfd-liveness**
    - — **dest-ip** *ipv6-address*
    - — **interface-name** *interface-name*
    - — **service-name** *string*
  - — **init-delay** *number*
  - — **mac** *mac-unicast-address*
  - — **master-int-inherit** *boolean*
  - — **message-interval** *number*
  - — **oper-group** *string*

```
        — owner
        — passive boolean
        — ping-reply boolean
        — policy string
        — preempt boolean
        — priority number
        — standby-forwarding boolean
        — telnet-reply boolean
        — traceroute-reply boolean
    — load-balancing
        — ip-load-balancing keyword
        — spi-load-balancing boolean
        — teid-load-balancing boolean
    — loopback boolean
    — mac mac-unicast-address
    — mac-accounting boolean
    — monitor-oper-group string
    — multicast-network-domain string
    — ptp-hw-assist
        — admin-state keyword
    — radius-auth-policy string
    — sap sap
        — accounting-policy string
        — admin-state keyword
        — anti-spoof keyword
        — bandwidth number
        — calling-station-id string
        — collect-stats boolean
        — cpu-protection
            — eth-cfm-monitoring
                — aggregate
                — car
            — ip-src-monitoring
            — mac-monitoring
            — policy-id string
        — description string
        — dist-cpu-protection string
        — egress
            — agg-rate
                — limit-unused-bandwidth boolean
                — queue-frame-based-accounting boolean
                — rate number
            — filter
                — ip string
                — ipv6 string
            — qos
                — policer-control-policy
                    — overrides
                        — root
                            — max-rate (number | keyword)
                            — priority-mbs-thresholds
                                — min-thresh-separation (number | keyword)
                                — priority number
                                    — mbs-contribution (number | keyword)
```

```
        — policy-name string
    — qinq-mark-top-only boolean
    — sap-egress
        — overrides
            — hs-secondary-shaper string
            — hs-wrr-group string
                — hs-class-weight number
                — percent-rate decimal-number
                — rate (number | keyword)
            — hsmda-queues
                — packet-byte-offset number
                — queue string
                    — mbs (number | keyword)
                    — rate (number | keyword)
                    — slope-policy string
                    — wrr-weight number
                — secondary-shaper string
                — wrr-policy string
            — policer string
                — cbs (number | keyword)
                — mbs (number | keyword)
                — packet-byte-offset number
                — percent-rate
                    — cir decimal-number
                    — pir decimal-number
                — rate
                    — cir (number | keyword)
                    — pir (number | keyword)
                — stat-mode keyword
            — queue string
                — adaptation-rule
                    — cir keyword
                    — pir keyword
                — avg-frame-overhead decimal-number
                — burst-limit (number | keyword)
                — cbs (number | keyword)
                — drop-tail
                    — low
                        — percent-reduction-from-mbs (number | keyword)
                — hs-class-weight number
                — hs-wred-queue
                    — policy string
                — hs-wrr-weight number
                — mbs (number | keyword)
                — monitor-depth boolean
                — parent
                    — cir-weight number
                    — weight number
                — percent-rate
                    — cir decimal-number
                    — pir decimal-number
                — rate
                    — cir (number | keyword)
                    — pir (number | keyword)
```

```
            — policy-name string
            — port-redirect-group
                — group-name string
                — instance number
        — scheduler-policy
            — overrides
                — scheduler string
                    — parent
                        — cir-weight number
                        — weight number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
            — policy-name string
    — queue-group-redirect-list string
— eth-cfm
    — collect-lmm-fc-stats
        — fc keyword
        — fc-in-profile keyword
    — collect-lmm-stats boolean
    — mep md-admin-name string ma-admin-name string mep-id number
        — admin-state keyword
        — ais boolean
        — alarm-notification
            — fng-alarm-time number
            — fng-reset-time number
        — ccm boolean
        — ccm-ltm-priority number
        — ccm-padding-size number
        — csf
            — multiplier decimal-number
        — description string
        — eth-test
            — bit-error-threshold number
            — test-pattern
                — crc-tlv boolean
                — pattern keyword
        — fault-propagation keyword
        — grace
            — eth-ed
                — max-rx-defect-window number
                — priority number
                — rx-eth-ed boolean
                — tx-eth-ed boolean
            — eth-vsm-grace
                — rx-eth-vsm-grace boolean
                — tx-eth-vsm-grace boolean
        — low-priority-defect keyword
        — one-way-delay-threshold number
    — squelch-ingress-levels number
— fwd-wholesale
    — pppoe-service string
— host-admin-state keyword
— host-lockout-policy string
```

```
— ingress
  — filter
    — ip string
    — ipv6 string
  — qos
    — match-qinq-dot1p keyword
    — policer-control-policy
      — overrides
        — root
          — max-rate (number | keyword)
          — priority-mbs-thresholds
            — min-thresh-separation (number | keyword)
            — priority number
              — mbs-contribution (number | keyword)
      — policy-name string
    — sap-ingress
      — fp-redirect-group
        — group-name string
        — instance number
      — overrides
        — policer string
          — cbs (number | keyword)
          — mbs (number | keyword)
          — packet-byte-offset number
          — percent-rate
            — cir decimal-number
            — pir decimal-number
          — rate
            — cir (number | keyword)
            — pir (number | keyword)
          — stat-mode keyword
        — queue string
          — adaptation-rule
            — cir keyword
            — pir keyword
          — cbs (number | keyword)
          — drop-tail
            — low
              — percent-reduction-from-mbs (number | keyword)
          — mbs (number | keyword)
          — monitor-depth boolean
          — parent
            — cir-weight number
            — weight number
          — percent-rate
            — cir decimal-number
            — pir decimal-number
          — rate
            — cir (number | keyword)
            — pir (number | keyword)
      — policy-name string
      — queuing-type keyword
    — scheduler-policy
      — overrides
```

```
                    — scheduler string
                        — parent
                            — cir-weight number
                            — weight number
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
                    — policy-name string
                — queue-group-redirect-list string
            — ip-tunnel interface-name
                — admin-state keyword
                — backup-remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                — clear-df-bit boolean
                — delivery-service service-name
                — description string
                — dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                — dscp keyword
                — encapsulated-ip-mtu number
                — gre-header
                    — admin-state keyword
                    — key
                        — admin-state keyword
                        — receive number
                        — send number
                — icmp6-generation
                    — packet-too-big
                        — admin-state keyword
                        — number number
                        — seconds number
                — ip-mtu number
                — local-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                — private-tcp-mss-adjust number
                — public-tcp-mss-adjust (number | keyword)
                — reassembly (number | keyword)
                — remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
            — ipsec-gateway string
                — admin-state keyword
                — default-secure-service
                    — interface interface-name
                    — service-name service-name
                — default-tunnel-template string
                — ike-policy string
                — local
                    — gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
                    — id
                        — auto
                        — fqdn string
                        — ipv4 ipv4-unicast-address
                        — ipv6 ipv6-unicast-address
                — max-history-key-records
                    — esp number
                    — ike number
                — pre-shared-key encrypted-leaf
            — lag
```

- **link-map-profile** *number*
- **per-link-hash**
  - **class** *number*
  - **weight** *number*
- **multi-service-site** *string*
- **static-host**
  - **ipv4** *ipv4-address* **mac** *mac-unicast-address*
    - **admin-state** *keyword*
    - **ancp-string** *ancp-string*
    - **int-dest-id** *int-dest-id*
    - **sla-profile** *string*
    - **sub-profile** *string*
    - **subscriber-id**
      - **string** *subscriber-id*
      - **use-sap-id**
- **shcv-policy-ipv4** *string*
- **spoke-sdp** *sdp-bind-id*
  - **accounting-policy** *string*
  - **admin-state** *keyword*
  - **bfd-liveness**
    - **encap** *keyword*
  - **bfd-template** *string*
  - **collect-stats** *boolean*
  - **control-word** *boolean*
  - **cpu-protection**
    - **eth-cfm-monitoring**
      - **aggregate**
      - **car**
    - **ip-src-monitoring**
    - **mac-monitoring**
    - **policy-id** *string*
  - **description** *string*
  - **egress**
    - **filter**
      - **ip** *string*
      - **ipv6** *string*
    - **qos**
      - **network**
        - **policy-name** *string*
        - **port-redirect-group**
          - **group-name** *string*
          - **instance** *number*
    - **vc-label** *number*
  - **entropy-label**
  - **eth-cfm**
    - **collect-lmm-fc-stats**
      - **fc** *keyword*
      - **fc-in-profile** *keyword*
    - **collect-lmm-stats** *boolean*
    - **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
      - **admin-state** *keyword*
      - **ais** *boolean*
      - **alarm-notification**
        - **fng-alarm-time** *number*

- — **fng-reset-time** *number*
- — **ccm** *boolean*
- — **ccm-ltm-priority** *number*
- — **ccm-padding-size** *number*
- — **csf**
  - — **multiplier** *decimal-number*
- — **description** *string*
- — **eth-test**
  - — **bit-error-threshold** *number*
  - — **test-pattern**
    - — **crc-tlv** *boolean*
    - — **pattern** *keyword*
- — **fault-propagation** *keyword*
- — **grace**
  - — **eth-ed**
    - — **max-rx-defect-window** *number*
    - — **priority** *number*
    - — **rx-eth-ed** *boolean*
    - — **tx-eth-ed** *boolean*
  - — **eth-vsm-grace**
    - — **rx-eth-vsm-grace** *boolean*
    - — **tx-eth-vsm-grace** *boolean*
- — **low-priority-defect** *keyword*
- — **one-way-delay-threshold** *number*
- — **squelch-ingress-levels** *number*
- — **hash-label**
  - — **signal-capability**
- — **ingress**
  - — **filter**
    - — **ip** *string*
    - — **ipv6** *string*
  - — **qos**
    - — **network**
      - — **fp-redirect-group**
        - — **group-name** *string*
        - — **instance** *number*
      - — **policy-name** *string*
  - — **vc-label** *number*
- — **vc-type** *keyword*
- — **tos-marking-state** *keyword*
- — **tunnel** *boolean*
- — **vas-if-type** *keyword*
- — **vpls** *string*
  - — **egress**
    - — **reclassify-using-qos** *string*
    - — **routed-override-filter**
      - — **ip** *string*
      - — **ipv6** *string*
  - — **ingress**
    - — **routed-override-filter**
      - — **ip** *string*
      - — **ipv6** *string*
- — **redundant-interface** *interface-name*
  - — **admin-state** *keyword*

- **description** *string*
- **hold-time**
  - **ipv4**
    - **down**
      - **init-only** *boolean*
      - **seconds** *number*
    - **up**
      - **seconds** *number*
- **ip-mtu** *number*
- **ipv4**
  - **primary**
    - **address** *ipv4-unicast-address*
    - **prefix-length** *number*
    - **remote-ip** *ipv4-unicast-address*
- **spoke-sdp** *sdp-bind-id*
  - **admin-state** *keyword*
  - **control-word** *boolean*
  - **description** *string*
  - **egress**
    - **filter**
      - **ip** *string*
    - **vc-label** *number*
  - **ingress**
    - **filter**
      - **ip** *string*
    - **vc-label** *number*
- **service-id** *number*
- **subscriber-interface** *interface-name*
  - **admin-state** *keyword*
  - **description** *string*
  - **fwd-service** *string*
  - **fwd-subscriber-interface** *string*
  - **group-interface** *interface-name*
    - **admin-state** *keyword*
    - **arp-host**
      - **admin-state** *keyword*
      - **host-limit** *number*
      - **min-auth-interval** *number*
      - **sap-host-limit** *number*
    - **bonding-parameters**
      - **admin-state** *keyword*
      - **connection** *connection-index*
        - **service** *service-name*
      - **fpe** *string*
      - **multicast**
        - **connection** *multicast-bonding-connection*
    - **brg**
      - **admin-state** *keyword*
      - **authenticated-brg-only** *boolean*
      - **default-brg-profile** *string*
    - **cflowd-parameters**
      - **sampling** *keyword*
        - **direction** *keyword*
        - **type** *keyword*

- **data-trigger**
  - **admin-state** *keyword*
- **description** *string*
- **dynamic-routes-track-srrp**
  - **hold-time** *number*
- **gtp-parameters**
  - **admin-state** *keyword*
  - **fpe** *string*
- **gx-policy** *string*
- **ingress-stats** *boolean*
- **ip-mtu** *number*
- **ipoe-linking**
  - **admin-state** *keyword*
  - **gratuitous-router-advertisement** *boolean*
  - **shared-circuit-id** *boolean*
- **ipoe-session**
  - **admin-state** *keyword*
  - **description** *string*
  - **force-auth**
    - **cid-change** *boolean*
    - **rid-change** *boolean*
  - **ipoe-session-policy** *string*
  - **min-auth-interval** *ipoe-session-min-auth-interval*
  - **radius-session-timeout** *ipoe-session-radius-session-timeout*
  - **sap-session-limit** *number*
  - **session-limit** *number*
  - **stateless-redundancy** *boolean*
  - **user-db** *string*
- **ipv4**
  - **dhcp**
    - **admin-state** *keyword*
    - **client-applications**
      - **dhcp** *boolean*
      - **ppp** *boolean*
    - **description** *string*
    - **filter** *string*
    - **gi-address** *ipv4-unicast-address*
    - **lease-populate**
      - **l2-header**
        - **mac** *mac-unicast-address*
      - **max-leases** *number*
    - **match-circuit-id** *boolean*
    - **option-82**
      - **action** *keyword*
      - **circuit-id**
        - **ascii-tuple**
        - **ifindex**
        - **none**
        - **sap-id**
        - **vlan-ascii-tuple**
      - **remote-id**
        - **ascii-string** *string*
        - **mac**
        - **none**

- **vendor-specific-option**
  - **client-mac-address** *boolean*
  - **pool-name** *boolean*
  - **sap-id** *boolean*
  - **service-id** *boolean*
  - **string** *string*
  - **system-id** *boolean*
- **proxy-server**
  - **admin-state** *keyword*
  - **emulated-server** *ipv4-unicast-address*
  - **lease-time**
    - **radius-override** *boolean*
    - **value** *number*
  - **python-policy** *string*
  - **relay-proxy**
    - **release-update-src-ip** *boolean*
    - **siaddr-override** *ipv4-unicast-address*
  - **server** *ipv4-unicast-address*
  - **src-ip-addr** *keyword*
  - **trusted** *boolean*
  - **user-db** *string*
- **icmp**
  - **mask-reply** *boolean*
  - **param-problem**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **redirects**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **ttl-expired**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
  - **unreachables**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
- **neighbor-discovery**
  - **local-proxy-arp** *boolean*
  - **populate** *boolean*
  - **proxy-arp-policy** *string*
  - **remote-proxy-arp** *boolean*
  - **timeout** *number*
- **qos-route-lookup** *keyword*
- **urpf-check**
  - **mode** *keyword*

- **ipv6**
  - **allow-multiple-wan-addresses** *boolean*
  - **auto-reply**
    - **neighbor-solicitation** *boolean*
    - **router-solicitation** *boolean*
  - **dhcp6**

- **filter** *string*
- **option**
  - **interface-id**
    - **ascii-tuple**
    - **if-index**
    - **sap-id**
    - **string** *string*
  - **remote-id** *boolean*
- **override-slaac** *boolean*
- **pd-managed-route**
  - **next-hop** *keyword*
- **proxy-server**
  - **admin-state** *keyword*
  - **client-applications**
    - **dhcp** *boolean*
    - **ppp** *boolean*
  - **preferred-lifetime** *dhcp6-prefix-lifetime*
  - **rebind-timer** *dhcp6-rebind-timer*
  - **renew-timer** *dhcp6-renew-timer*
  - **server-id**
    - **duid-en-ascii** *string*
    - **duid-en-hex** *string*
    - **duid-ll**
  - **valid-lifetime** *dhcp6-prefix-lifetime*
- **python-policy** *string*
- **relay**
  - **admin-state** *keyword*
  - **client-applications**
    - **dhcp** *boolean*
    - **ppp** *boolean*
  - **description** *string*
  - **link-address** *ipv6-address*
  - **server** *ipv6-address-with-zone*
  - **source-address** *ipv6-unicast-address*
- **snooping**
  - **admin-state** *keyword*
- **user-db** *string*
- **user-ident** *keyword*

- **ipoe-bridged-mode** *boolean*
- **neighbor-discovery**
  - **dad-snooping** *boolean*
  - **neighbor-limit** *number*
- **qos-route-lookup** *keyword*
- **router-advertisements**
  - **admin-state** *keyword*
  - **force-mcast** *keyword*
  - **max-advertisement-interval** *number*
  - **min-advertisement-interval** *number*
  - **options**
    - **current-hop-limit** *number*
    - **dns**
      - **include-rdnss** *boolean*
      - **rdnss-lifetime** (*number* | *keyword*)
    - **managed-configuration** *boolean*

```
            — mtu (number | keyword)
            — other-stateful-configuration boolean
            — reachable-time number
            — retransmit-timer number
            — router-lifetime (number | keyword)
         — prefix-options
            — autonomous boolean
            — on-link boolean
            — preferred-lifetime router-advertisement-prefix-options-lifetime
            — valid-lifetime router-advertisement-prefix-options-lifetime
      — router-solicit
         — admin-state keyword
         — inactivity-timer (number | keyword)
         — min-auth-interval number
         — user-db string
      — urpf-check
         — mode keyword
   — local-address-assignment
      — admin-state keyword
      — ipv4
         — client-applications
            — ipoe boolean
            — ppp boolean
         — default-pool string
         — server string
      — ipv6
         — client-applications
            — ipoe-slaac boolean
            — ipoe-wan boolean
            — ppp-slaac boolean
         — server string
   — mac mac-unicast-address
   — nasreq-auth-policy string
   — oper-up-while-empty boolean
   — pppoe
      — admin-state keyword
      — anti-spoof pppoe-anti-spoof
      — description string
      — policy string
      — python-policy string
      — sap-session-limit number
      — session-limit number
      — user-db string
   — radius-auth-policy string
   — redundant-interface string
   — sap sap
      — accounting-policy string
      — admin-state keyword
      — anti-spoof keyword
      — calling-station-id string
      — collect-stats boolean
      — cpu-protection
         — eth-cfm-monitoring
            — aggregate
```

```
        — car
    — ip-src-monitoring
    — mac-monitoring
    — policy-id string
— default-host
    — ipv4 string prefix-length number
        — next-hop ipv4-unicast-address
    — ipv6 ipv6-unicast-address prefix-length number
        — next-hop ipv6-unicast-address
— description string
— dist-cpu-protection string
— egress
    — agg-rate
        — limit-unused-bandwidth boolean
        — queue-frame-based-accounting boolean
        — rate number
    — filter
        — ip string
        — ipv6 string
    — qos
        — policer-control-policy
            — policy-name string
        — qinq-mark-top-only boolean
        — sap-egress
            — policy-name string
        — scheduler-policy
            — policy-name string
— eth-cfm
    — collect-lmm-fc-stats
        — fc keyword
        — fc-in-profile keyword
    — collect-lmm-stats boolean
    — mep md-admin-name string ma-admin-name string mep-id number
        — admin-state keyword
        — ais boolean
        — alarm-notification
            — fng-alarm-time number
            — fng-reset-time number
        — ccm boolean
        — ccm-ltm-priority number
        — ccm-padding-size number
        — csf
            — multiplier decimal-number
        — description string
        — eth-test
            — bit-error-threshold number
            — test-pattern
                — crc-tlv boolean
                — pattern keyword
        — fault-propagation keyword
        — grace
            — eth-ed
                — max-rx-defect-window number
                — priority number
```

```
                        — rx-eth-ed boolean
                        — tx-eth-ed boolean
                    — eth-vsm-grace
                        — rx-eth-vsm-grace boolean
                        — tx-eth-vsm-grace boolean
                — low-priority-defect keyword
                — one-way-delay-threshold number
            — squelch-ingress-levels number
        — fwd-wholesale
            — pppoe-service string
        — host-admin-state keyword
        — host-lockout-policy string
        — igmp-host-tracking
            — expiry-time number
            — import-policy string
            — maximum-number-group-sources number
            — maximum-number-groups number
            — maximum-number-sources number
            — router-alert-check boolean
        — ingress
            — filter
                — ip string
                — ipv6 string
            — qos
                — match-qinq-dot1p keyword
                — policer-control-policy
                    — policy-name string
                — sap-ingress
                    — policy-name string
                    — queuing-type keyword
                — scheduler-policy
                    — policy-name string
        — lag
            — link-map-profile number
            — per-link-hash
                — class number
                — weight number
        — monitor-oper-group string
        — multi-service-site string
        — oper-group string
        — static-host
            — ipv4 ipv4-unicast-address mac mac-unicast-address
                — admin-state keyword
                — ancp-string ancp-string
                — int-dest-id int-dest-id
                — managed-route ipv4-unicast-prefix
                — rip-policy string
                — shcv
                — sla-profile string
                — sub-profile string
                — subscriber-id
                    — string subscriber-id
                    — use-sap-id
            — ipv6 ipv6-unicast-prefix mac mac-unicast-address
```

- **admin-state** *keyword*
- **ancp-string** *ancp-string*
- **int-dest-id** *int-dest-id*
- **mac-linking** *ipv4-unicast-address*
- **managed-route** *ipv6-unicast-prefix*
  - **metric** *number*
- **retail-svc-id** *number*
- **shcv**
- **sla-profile** *string*
- **sub-profile** *string*
- **subscriber-id**
  - **string** *subscriber-id*
  - **use-sap-id**

- **mac-learning**
  - **data-triggered** *boolean*
  - **single-mac** *boolean*

- **sub-sla-mgmt**
  - **admin-state** *keyword*
  - **defaults**
    - **int-dest-id**
      - **string** *int-dest-id*
      - **top-q-tag**
    - **sla-profile** *string*
    - **sub-profile** *string*
    - **subscriber-id**
      - **auto-id**
      - **sap-id**
      - **string** *subscriber-id*
  - **single-sub-parameters**
    - **non-sub-traffic**
      - **sla-profile** *string*
      - **sub-profile** *string*
      - **subscriber-id** *subscriber-id*
    - **profiled-traffic-only** *boolean*
  - **sub-ident-policy** *string*
  - **subscriber-limit** *sap-subscriber-limit*

- **sap-parameters**
  - **anti-spoof** *keyword*
  - **description** *string*
  - **sub-sla-mgmt**
    - **defaults**
      - **sla-profile** *string*
      - **sub-profile** *string*
      - **subscriber-id**
        - **auto-id**
        - **string** *subscriber-id*
    - **sub-ident-policy** *string*
- **shcv-policy** *string*
- **shcv-policy-ipv4** *string*
- **shcv-policy-ipv6** *string*
- **srrp** *number*
  - **admin-state** *keyword*
  - **bfd-liveness**
    - **dest-ip** *ipv4-address*

```
        — interface-name interface-name
        — service-name string
    — description string
    — gw-mac mac-unicast-address
    — keep-alive-interval number
    — message-path string
    — monitor-oper-group
        — group-name string
        — priority-step number
    — one-garp-per-sap boolean
    — policy string
    — preempt boolean
    — priority number
    — send-fib-population-packets keyword
— suppress-aa-sub boolean
— tos-marking-state keyword
— type keyword
— wlan-gw
    — admin-state keyword
    — gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
        — purpose
            — xconnect boolean
    — gateway-router string
    — l2-ap
        — access-point sap
            — admin-state keyword
            — encap-type keyword
            — epipe-sap-template string
        — auto-sub-id-fmt keyword
        — default-encap-type keyword
    — lanext
        — max-bd number
    — learn-ap-mac
        — delay-auth boolean
    — mobility
        — hold-time number
        — inter-tunnel-type boolean
        — inter-vlan boolean
        — trigger
            — control boolean
            — data boolean
            — iapp boolean
    — oper-down-on-group-degrade boolean
    — tcp-mss-adjust number
    — tunnel-egress-qos
        — admin-state keyword
        — agg-rate-limit (number | keyword)
        — granularity keyword
        — hold-time (number | keyword)
        — multi-client-only boolean
        — qos string
        — scheduler-policy string
    — tunnel-encaps
        — learn-l2tp-cookie (keyword | string)
```

```
— vlan-range string
    — authentication
        — hold-time number
        — on-control-plane boolean
        — policy string
        — vlan-mismatch-timeout number
    — data-triggered-ue-creation
        — admin-state keyword
        — create-proxy-cache-entry
            — mac-format mac-specification
            — proxy-server
                — name string
                — router-instance string
    — dhcp4
        — admin-state keyword
        — dns ipv4-unicast-address
        — l2-aware-ip-address (string | keyword)
        — lease-time
            — active number
            — initial number
        — nbns ipv4-unicast-address
    — dhcp6
        — admin-state keyword
        — preferred-lifetime
            — active number
            — initial number
        — valid-lifetime
            — active number
            — initial number
    — dsm
        — accounting-policy string
        — accounting-update
            — interval number
        — admin-state keyword
        — egress
            — policer string
        — ingress
            — ip-filter string
            — policer string
        — one-time-redirect
            — port number
            — url one-time-http-redirect-url
    — http-redirect-policy string
    — idle-timeout-action keyword
    — l2-service
        — admin-state keyword
        — description string
        — service string
    — nat-policy string
    — retail-service service-name
    — slaac
        — admin-state keyword
        — preferred-lifetime
            — active number
```

```
                    — initial number
                — valid-lifetime
                    — active number
                    — initial number
            — vrgw
                — admin-state keyword
                — brg
                    — authenticated-brg-only boolean
                    — default-brg-profile string
                — lanext
                    — access
                        — max-mac number
                        — multi-access boolean
                    — admin-state keyword
                    — assistive-address-resolution boolean
                    — bd-mac-prefix string
                    — mac-translation boolean
                    — network
                        — admin-state keyword
                        — max-mac number
            — xconnect
                — accounting
                    — mobility-updates boolean
                    — policy string
                    — update-interval number
                — admin-state keyword
        — wlan-gw-group string
    — wpp
        — admin-state keyword
        — initial
            — sla-profile string
            — sub-profile string
        — lease-time number
        — portal
            — name string
            — portal-group string
            — router-instance string
        — restore-to-initial-on-disconnect boolean
        — triggered-hosts boolean
        — user-db string
— hold-time
    — ipv4
        — down
            — init-only boolean
            — seconds number
        — up
            — seconds number
    — ipv6
        — down
            — init-only boolean
            — seconds number
        — up
            — seconds number
— ipoe-linking
```

- — **gratuitous-router-advertisement** *boolean*
- — **ipoe-session**
  - — **session-limit** *number*
- — **ipv4**
  - — **address** *ipv4-unicast-address*
    - — **gateway** *ipv4-unicast-address*
    - — **holdup-time** *number*
    - — **populate-host-routes** *boolean*
    - — **prefix-length** *number*
    - — **track-srrp** *number*
  - — **allow-unmatching-subnets** *boolean*
  - — **default-dns** *ipv4-unicast-address*
  - — **dhcp**
    - — **admin-state** *keyword*
    - — **client-applications**
      - — **dhcp** *boolean*
      - — **ppp** *boolean*
    - — **description** *string*
    - — **gi-address** *ipv4-unicast-address*
    - — **lease-populate**
      - — **max-leases** *number*
    - — **option-82**
      - — **vendor-specific-option**
        - — **client-mac-address** *boolean*
        - — **sap-id** *boolean*
        - — **service-id** *boolean*
        - — **string** *string*
        - — **system-id** *boolean*
    - — **proxy-server**
      - — **admin-state** *keyword*
      - — **emulated-server** *ipv4-unicast-address*
      - — **lease-time**
        - — **radius-override** *boolean*
        - — **value** *number*
    - — **python-policy** *string*
    - — **relay-proxy**
      - — **release-update-src-ip** *boolean*
      - — **siaddr-override** *ipv4-unicast-address*
    - — **server** *ipv4-unicast-address*
    - — **src-ip-addr** *keyword*
    - — **virtual-subnet** *boolean*
  - — **export-host-routes** *boolean*
  - — **unnumbered**
    - — **ip-address** *ipv4-unicast-address*
    - — **ip-int-name** *interface-name*
- — **ipv6**
  - — **address** *ipv6-address*
    - — **holdup-time** *number*
    - — **host-type** *keyword*
    - — **prefix-length** *number*
    - — **track-srrp** *number*
  - — **allow-multiple-wan-addresses** *boolean*
  - — **allow-unmatching-prefixes** *boolean*
  - — **default-dns** *ipv6-unicast-address*

- **delegated-prefix-length** (*number* | *keyword*)
- **dhcp6**
  - **override-slaac** *boolean*
  - **pd-managed-route**
    - **next-hop** *keyword*
  - **proxy-server**
    - **admin-state** *keyword*
    - **client-applications**
      - **dhcp** *boolean*
      - **ppp** *boolean*
    - **preferred-lifetime** *dhcp6-prefix-lifetime*
    - **rebind-timer** *dhcp6-rebind-timer*
    - **renew-timer** *dhcp6-renew-timer*
    - **server-id**
      - **duid-en-ascii** *string*
      - **duid-en-hex** *string*
      - **duid-ll**
    - **valid-lifetime** *dhcp6-prefix-lifetime*
  - **python-policy** *string*
  - **relay**
    - **admin-state** *keyword*
    - **client-applications**
      - **dhcp** *boolean*
      - **ppp** *boolean*
    - **description** *string*
    - **link-address** *ipv6-address*
    - **server** *ipv6-address-with-zone*
    - **source-address** *ipv6-unicast-address*
- **ipoe-bridged-mode** *boolean*
- **link-local-address**
  - **address** *ipv6-address*
- **prefix** *ipv6-prefix*
  - **holdup-time** *number*
  - **host-type** *keyword*
  - **track-srrp** *number*
- **router-advertisements**
  - **admin-state** *keyword*
  - **force-mcast** *keyword*
  - **max-advertisement-interval** *number*
  - **min-advertisement-interval** *number*
  - **options**
    - **current-hop-limit** *number*
    - **dns**
      - **include-rdnss** *boolean*
      - **rdnss-lifetime** (*number* | *keyword*)
    - **managed-configuration** *boolean*
    - **mtu** (*number* | *keyword*)
    - **other-stateful-configuration** *boolean*
    - **reachable-time** *number*
    - **retransmit-timer** *number*
    - **router-lifetime** (*number* | *keyword*)
  - **prefix-options**
    - **autonomous** *boolean*
    - **on-link** *boolean*

```
            — preferred-lifetime router-advertisement-prefix-options-lifetime
            — valid-lifetime router-advertisement-prefix-options-lifetime
         — router-solicit
            — inactivity-timer (number | keyword)
      — local-address-assignment
         — admin-state keyword
         — ipv4
            — client-applications
               — ppp boolean
            — default-pool string
            — server string
         — ipv6
            — client-applications
               — ipoe-slaac boolean
               — ipoe-wan boolean
               — ppp-slaac boolean
            — server string
      — pppoe
         — description string
         — session-limit number
      — wan-mode keyword
      — wlan-gw
         — pool-manager
            — dhcp6-client
               — dhcpv4-nat
                  — admin-state keyword
                  — link-address ipv6-address
                  — pool-name string
               — ia-na
                  — admin-state keyword
                  — link-address ipv6-address
                  — pool-name string
               — lease-query
                  — max-retries number
               — servers ipv6-unicast-address
               — slaac
                  — admin-state keyword
                  — link-address ipv6-address
                  — pool-name string
               — source-ip (keyword | string)
            — watermarks
               — high number
               — low number
            — wlan-gw-group string
         — redundancy
            — admin-state keyword
            — export ipv4-unicast-prefix
            — monitor ipv4-unicast-prefix
   — video-interface interface-name
      — accounting-policy string
      — address ipv4-prefix-with-host-bits
      — adi
         — scte30
            — ad-server ipv4-address
```

```
                    — local-address
                        — control ipv4-unicast-address
                        — data ipv4-unicast-address
                — admin-state keyword
                — channel ipv4-multicast-address source ipv4-unicast-address
                    — channel-name string
                    — description string
                    — scte35-action keyword
                    — zone-channel ipv4-multicast-address zone-source ipv4-unicast-address
                        — adi-channel-name string
                — cpu-protection string
                — description string
                — multicast-service number
                — output-format keyword
                — rt-client
                    — src-address ipv4-unicast-address
                — video-sap
                    — egress
                        — filter
                            — ip string
                        — qos
                            — policy-name string
                    — ingress
                        — filter
                            — ip string
                        — qos
                            — policy-name string
                    — video-group-id string
            — vpn-id number
    — ipfix
        — export-policy string
            — collector router-instance string ip-address ipv4-unicast-address
                — admin-state keyword
                — mtu number
                — refresh-timeout number
                — source-ip-address ipv4-unicast-address
            — description string
            — template-format keyword
    — md-auto-id
        — customer-id-range
            — end number
            — start number
        — pw-template-id-range
            — end number
            — start number
        — service-id-range
            — end number
            — start number
    — nat
        — classifier string
            — default
                — action
                    — dnat
                    — dnat-ip-address ipv4-unicast-address
```

```
            — forward
         — dnat-ip-address ipv4-unicast-address
      — description string
      — entry number
         — action
            — dnat
            — dnat-ip-address ipv4-unicast-address
            — forward
         — description string
         — match
            — dst-port-range
               — end number
               — start number
            — protocol keyword
   — deterministic-script
      — location ftp-tftp-url
   — firewall-policy external-named-item
      — alg
         — ftp boolean
         — rtsp boolean
         — sip boolean
      — description string
      — domain
         — name string
         — router-instance string
      — filtering keyword
      — l2-outside
      — port-limits
         — forwarding number
      — priority-sessions
         — fc
            — af boolean
            — be boolean
            — ef boolean
            — h1 boolean
            — h2 boolean
            — l1 boolean
            — l2 boolean
            — nc boolean
      — session-limits
         — max number
         — reserved number
         — watermarks
            — high number
            — low number
      — tcp
         — mss-adjust number
      — timeouts
         — icmp6-query number
         — sip number
         — tcp
            — established number
            — rst number
            — syn number
```

- **time-wait** *number*
- **transitory** *number*
- **udp**
- **dns** *number*
- **initial** *number*
- **normal** *number*
- **unknown-protocol** *number*
- **udp**
- **inbound-refresh** *boolean*
- **unknown-protocols**
- **all**
- **protocol** *number*
- **map-t**
- **domain** *string*
- **admin-state** *keyword*
- **description** *string*
- **dmr-prefix** *ipv6-prefix*
- **ip-fragmentation**
- **v6-frag-header** *boolean*
- **mapping-rule** *string*
- **admin-state** *keyword*
- **description** *string*
- **ea-length** *number*
- **ipv4-prefix** *ipv4-prefix*
- **psid-offset** *number*
- **rule-prefix** *ipv6-prefix*
- **mtu** *number*
- **tcp-mss-adjust** *number*
- **nat-policy** *external-named-item*
- **alg**
- **ftp** *boolean*
- **pptp** *boolean*
- **rtsp** *boolean*
- **sip** *boolean*
- **block-limit** *number*
- **description** *string*
- **dnat**
- **classifier** *string*
- **dnat-only**
- **nat-group** *string*
- **router-instance** *string*
- **wlan-gw-group** *string*
- **filtering** *keyword*
- **flow-log-policy**
- **ipfix** *string*
- **syslog** *string*
- **l2-outside**
- **pool**
- **name** *string*
- **router-instance** *string*
- **port-forwarding-range-end** *number*
- **port-limits**
- **forwarding** *number*
- **reserved** *number*

- **watermarks**
  - **high** *number*
  - **low** *number*
- **priority-sessions**
  - **fc**
    - **af** *boolean*
    - **be** *boolean*
    - **ef** *boolean*
    - **h1** *boolean*
    - **h2** *boolean*
    - **l1** *boolean*
    - **l2** *boolean*
    - **nc** *boolean*
- **session-limits**
  - **max** *number*
  - **reserved** *number*
  - **watermarks**
    - **high** *number*
    - **low** *number*
- **tcp**
  - **mss-adjust** *number*
  - **reset-unknown** *boolean*
- **timeouts**
  - **icmp-query** *number*
  - **sip** *number*
  - **subscriber-retention** *number*
  - **tcp**
    - **established** *number*
    - **rst** *number*
    - **syn** *number*
    - **time-wait** *number*
    - **transitory** *number*
  - **udp**
    - **dns** *number*
    - **initial** *number*
    - **normal** *number*
- **udp**
  - **inbound-refresh** *boolean*

- **pcp-server-policy** *string*
  - **description** *string*
  - **lifetime**
    - **maximum** *number*
    - **minimum** *number*
  - **max-description-size** *number*
  - **opcode**
    - **announce** *boolean*
    - **get** *boolean*
    - **map** *boolean*
  - **option**
    - **description** *boolean*
    - **next** *boolean*
    - **port-reservation** *boolean*
    - **prefer-failure** *boolean*
    - **third-party** *boolean*

```
        — version
            — maximum number
            — minimum number
        — prefix-list string
            — application keyword
            — prefix ipv4-prefix
                — nat-policy string
        — syslog
            — export-policy string
                — collector router-instance string ip-address ipv4-unicast-address
                    — admin-state keyword
                    — destination-port number
                    — ipv4-source-address ipv4-unicast-address
                — description string
                — facility keyword
                — include
                    — destination-ip boolean
                    — foreign-ip boolean
                    — foreign-port boolean
                    — nat-policy-name boolean
                    — sub-id boolean
                — log-prefix string
                — max-tx-delay number
                — mtu number
                — rate-limit number
                — severity-level keyword
    — oper-group string
        — bfd-liveness
            — dest-ip ipv4-unicast-address
            — interface-name interface-name
            — router-instance string
        — hold-time
            — down number
            — up number
    — pbb
        — mac string
            — address mac-unicast-address-no-zero
        — mac-notification
            — count number
            — interval number
        — source-bmac
            — address mac-unicast-address-no-zero
            — evpn-etree-leaf-address mac-unicast-address-no-zero
    — proxy-arp-nd
        — mac-list
            — list string
                — mac mac-unicast-address-no-zero
    — pw-template pw-template-name
        — accounting-policy number
        — allow-fragmentation boolean
        — auto-gre-sdp boolean
        — block-on-peer-fault boolean
        — collect-stats boolean
        — control-word boolean
```

- **egress**
  - **filter**
    - **ip** *string*
    - **ipv6** *string*
    - **mac** *string*
  - **mfib-allowed-mda-destinations**
    - **mda** *slot-mda*
  - **qos**
    - **network**
      - **policy-name** *string*
      - **port-redirect-group**
        - **group-name** *string*
        - **instance** *number*
- **entropy-label**
- **fdb**
  - **auto-learn-mac-protect** *boolean*
  - **discard-unknown-source** *boolean*
  - **limit-mac-move** *keyword*
  - **mac-learning**
    - **aging** *boolean*
    - **learning** *boolean*
  - **mac-pinning** *boolean*
  - **maximum-mac-addresses** *number*
  - **protected-src-mac-violation-action** *keyword*
- **force-vc-forwarding** *keyword*
- **hash-label**
  - **signal-capability**
- **igmp-snooping**
  - **fast-leave** *boolean*
  - **import-policy** *string*
  - **maximum-number-groups** *number*
  - **query-interval** *number*
  - **query-last-member-interval** *number*
  - **query-response-interval** *number*
  - **robust-count** *number*
  - **send-queries** *boolean*
  - **version** *keyword*
- **ingress**
  - **filter**
    - **ip** *string*
    - **ipv6** *string*
    - **mac** *string*
  - **qos**
    - **network**
      - **fp-redirect-group**
        - **group-name** *string*
        - **instance** *number*
      - **policy-name** *string*
- **l2pt**
  - **termination**
    - **protocols**
      - **cdp** *boolean*
      - **dtp** *boolean*
      - **pagp** *boolean*

```
                    — stp boolean
                    — udld boolean
                    — vtp boolean
            — provisioned-sdp keyword
            — pw-template-id number
            — sdp-exclude string
            — sdp-include string
            — split-horizon-group
                — description string
                — fdb
                    — saps
                        — auto-learn-mac-protect boolean
                        — discard-unprotected-dest-mac boolean
                        — protected-src-mac-violation-action keyword
                — name string
            — stp
                — admin-state keyword
                — auto-edge boolean
                — edge-port boolean
                — link-type keyword
                — path-cost number
                — priority number
                — root-guard boolean
            — vc-type keyword
            — vlan-vc-tag number
        — sdp number
            — accounting-policy string
            — admin-state keyword
            — adv-mtu-override boolean
            — allow-fragmentation boolean
            — bgp-tunnel boolean
            — booking-factor number
            — class-forwarding
                — admin-state keyword
                — default-lsp string
                — enforce-diffserv-lsp-fc boolean
                — fc keyword
                    — lsp string
                — multicast-lsp string
            — collect-stats boolean
            — delivery-type keyword
            — description string
            — far-end
                — global-id number
                — ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
                — node-id ipv4-address
            — keep-alive
                — admin-state keyword
                — hello-time number
                — hold-down-time number
                — maximum-drop-count number
                — message-length number
                — timeout number
            — ldp boolean
```

- **local-end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **lsp** *string*
- **metric** *number*
- **mixed-lsp-mode**
  - **revert-time** (*number* | *keyword*)
- **network-domain** *string*
- **path-mtu** *number*
- **pbb-etype** *etype-value*
- **pw-port**
  - **binding-port** *port*
- **sdp-group** *string*
- **signaling** *keyword*
- **source-bmac-lsb**
  - **control-pw-vc-id** *number*
  - **value** *bmac-lsb-no-zero*
- **sr-isis** *boolean*
- **sr-ospf** *boolean*
- **tunnel-far-end** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **vlan-vc-etype** *etype-value*
- **weighted-ecmp** *boolean*

- **sdp-group**
  - **group-name** *string*
    - **value** *number*
- **system**
  - **bgp**
    - **evpn**
      - **ad-per-es-route**
        - **route-distinguisher-ip-address** *ipv4-address*
        - **route-target-type** *keyword*
      - **ethernet-segment** *string*
        - **admin-state** *keyword*
        - **association**
          - **lag** *string*
            - **virtual-ranges**
              - **dot1q**
                - **q-tag** (*number* | *keyword*)
                  - **end** (*number* | *keyword*)
              - **qinq**
                - **s-tag** (*number* | *keyword*)
                  - **end** (*number* | *keyword*)
                - **s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
                  - **c-tag-end** (*number* | *keyword*)
          - **network-interconnect-vxlan** *number*
            - **virtual-ranges**
              - **service-id** *number*
                - **end** *number*
          - **port** *string*
            - **virtual-ranges**
              - **dot1q**
                - **q-tag** (*number* | *keyword*)
                  - **end** (*number* | *keyword*)
              - **qinq**
                - **s-tag** (*number* | *keyword*)
                  - **end** (*number* | *keyword*)

```
                        — s-tag-c-tag (number | keyword) c-tag-start (number | keyword)
                            — c-tag-end (number | keyword)
                    — pw-port string
                        — virtual-ranges
                            — dot1q
                                — q-tag (number | keyword)
                                    — end (number | keyword)
                            — qinq
                                — s-tag (number | keyword)
                                    — end (number | keyword)
                                — s-tag-c-tag (number | keyword) c-tag-start (number | keyword)
                                    — c-tag-end (number | keyword)
                    — sdp string
                        — virtual-ranges
                            — vc-id number
                                — end number
                — df-election
                    — es-activation-timer number
                    — manual
                        — evi number
                            — end number
                        — isid number
                            — end number
                        — preference
                            — mode keyword
                            — value number
                    — service-carving-mode keyword
                — esi ethernet-segment-id-mac-based
                — multi-homing-mode keyword
                — orig-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                — pbb
                    — es-bmac-table-size number
                    — source-bmac-lsb bmac-lsb-no-zero
                — route-next-hop (ipv4-address-no-zone | ipv6-address-no-zone)
                — type keyword
            — etree-leaf-label boolean
            — route-distinguisher vpn-route-distinguisher
    — bgp-auto-rd-range
        — community-value
            — end number
            — start number
        — ip-address ipv4-address
    — extended-default-qinq-sap-lookup boolean
    — fdb
        — table-size number
    — gre-eth-bridged
        — tunnel-termination (ipv4-address-no-zone | ipv6-address-no-zone)
            — fpe-id string
    — vpn-gre-source-ip ipv4-unicast-address
    — vxlan
        — assisted-replication
            — ip-address ipv4-unicast-address
        — tunnel-termination (ipv4-address-no-zone | ipv6-address-no-zone)
            — fpe-id string
```

- **template**
  - **epipe-sap-template** *string*
    - **egress**
      - **filter**
        - **ip** *string*
        - **ipv6** *string*
        - **mac** *string*
      - **qos**
        - **policy-name** *string*
    - **ingress**
      - **filter**
        - **ip** *string*
        - **ipv6** *string*
        - **mac** *string*
      - **qos**
        - **policy-name** *string*
        - **queuing-type** *keyword*
  - **vpls-sap-template** *string*
    - **egress**
      - **agg-rate**
        - **limit-unused-bandwidth** *boolean*
        - **queue-frame-based-accounting** *boolean*
        - **rate** *number*
      - **filter**
        - **ip** *string*
        - **ipv6** *string*
        - **mac** *string*
      - **policer-control-policy**
        - **policy-name** *string*
      - **qos**
        - **policy-name** *string*
        - **qinq-mark-top-only** *boolean*
      - **scheduler-policy**
        - **policy-name** *string*
    - **ingress**
      - **filter**
        - **ip** *string*
        - **ipv6** *string*
        - **mac** *string*
      - **policer-control-policy**
        - **policy-name** *string*
      - **qos**
        - **match-qinq-dot1p** *keyword*
        - **policy-name** *string*
        - **queuing-type** *keyword*
      - **scheduler-policy**
        - **policy-name** *string*
- **upnp**
  - **policy** *external-named-item*
    - **description** *string*
    - **mapping-limit** *number*
    - **port** *number*
    - **strict-mode** *boolean*
- **vpls** *service-name*

- **admin-state** *keyword*
- **bgp** *number*
  - **pw-template-binding** *string*
    - **bfd-liveness** *boolean*
    - **bfd-template** *string*
    - **import-rt** *route-target*
    - **monitor-oper-group** *string*
    - **oper-group** *string*
    - **split-horizon-group** *string*
  - **route-distinguisher** (*keyword* | *vpn-route-distinguisher*)
  - **route-target**
    - **export** *route-target*
    - **import** *route-target*
  - **vsi-export** *string*
  - **vsi-import** *string*
- **bgp-ad**
  - **admin-state** *keyword*
  - **vpls-id** *vpls-id*
  - **vsi-id-prefix** *ipv4-address*
- **bgp-evpn**
  - **accept-ivpls-evpn-flush** *boolean*
  - **evi** *number*
  - **incl-mcast-orig-ip** *ipv4-unicast-address*
  - **isid-route-target**
    - **range** *number*
      - **end** *number*
      - **route-target** *route-target*
      - **type** *keyword*
  - **mac-duplication**
    - **blackhole** *boolean*
    - **detect**
      - **num-moves** *number*
      - **window** *number*
    - **retry** (*number* | *keyword*)
  - **mpls** *number*
    - **admin-state** *keyword*
    - **auto-bind-tunnel**
      - **enforce-strict-tunnel-tagging** *boolean*
      - **resolution** *keyword*
      - **resolution-filter**
        - **bgp** *boolean*
        - **ldp** *boolean*
        - **rsvp** *boolean*
        - **sr-isis** *boolean*
        - **sr-ospf** *boolean*
        - **sr-te** *boolean*
        - **udp** *boolean*
    - **control-word** *boolean*
    - **default-route-tag** *one-byte-value*
    - **ecmp** *number*
    - **entropy-label** *boolean*
    - **fdb**
      - **protected-src-mac-violation-action** *keyword*
    - **force-vc-forwarding** *keyword*

- — **ingress-replication-bum-label** *boolean*
- — **send-tunnel-encap**
  - — **mpls** *boolean*
  - — **mpls-over-udp** *boolean*
- — **split-horizon-group** *string*
- — **routes**
  - — **incl-mcast**
    - — **advertise-ingress-replication** *boolean*
  - — **ip-prefix**
    - — **advertise** *boolean*
    - — **include-direct-interface-host** *boolean*
  - — **mac-ip**
    - — **advertise** *boolean*
    - — **cfm-mac** *boolean*
    - — **unknown-mac** *boolean*
- — **vxlan** *number*
  - — **admin-state** *keyword*
  - — **default-route-tag** *one-byte-value*
  - — **send-incl-mcast-ir-on-ndf** *boolean*
  - — **send-tunnel-encap** *boolean*
  - — **vxlan-instance** *string*

— **bgp-mh-site** *string*
- — **activation-timer** *number*
- — **admin-state** *keyword*
- — **boot-timer** *number*
- — **failed-threshold** (*number* | *keyword*)
- — **id** *number*
- — **mesh-sdp-binds**
- — **min-down-timer** *number*
- — **monitor-oper-group** *string*
- — **sap** *sap*
- — **shg-name** *string*
- — **spoke-sdp** *sdp-bind-id*

— **bgp-vpls**
- — **admin-state** *keyword*
- — **maximum-ve-id** *number*
- — **ve**
  - — **id** *number*
  - — **name** *string*

— **capture-sap** *sap*
- — **admin-state** *keyword*
- — **allow-dot1q-msaps** *boolean*
- — **bandwidth** *number*
- — **cpu-protection**
  - — **mac-monitoring**
  - — **policy-id** *string*
- — **description** *string*
- — **dhcp**
  - — **python-policy** *string*
  - — **user-db** *string*
- — **dhcp6**
  - — **python-policy** *string*
  - — **user-db** *string*
- — **dist-cpu-protection** *string*

- — **host-lockout-policy** *string*
- — **ipoe-session**
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **ipoe-session-policy** *string*
  - — **user-db** *string*
- — **msap-defaults**
  - — **group-interface** *interface-name*
  - — **policy** *string*
  - — **service-name** *service-name*
- — **nasreq-auth-policy** *string*
- — **pppoe**
  - — **policy** *string*
  - — **python-policy** *string*
  - — **user-db** *string*
- — **radius-auth-policy** *string*
- — **router-solicit**
  - — **user-db** *string*
- — **track-srrp** *number*
- — **trigger-packet**
  - — **arp** *boolean*
  - — **data** *boolean*
  - — **dhcp** *boolean*
  - — **dhcp6** *boolean*
  - — **pppoe** *boolean*
  - — **rtr-solicit** *boolean*

— **customer** *string*
— **description** *string*
— **endpoint** *string*
- — **block-on-mesh-failure** *boolean*
- — **description** *string*
- — **fdb**
  - — **auto-learn-mac-protect** *boolean*
  - — **mac-pinning** *boolean*
  - — **maximum-mac-addresses** *number*
  - — **protected-src-mac-violation-action** *keyword*
- — **ignore-standby-signaling** *boolean*
- — **revert-time** (*number* | *keyword*)
- — **suppress-standby-signaling** *boolean*

— **eth-cfm**
- — **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
  - — **admin-state** *keyword*
  - — **alarm-notification**
    - — **fng-alarm-time** *number*
    - — **fng-reset-time** *number*
  - — **ccm** *boolean*
  - — **ccm-ltm-priority** *number*
  - — **ccm-padding-size** *number*
  - — **description** *string*
  - — **eth-test**
    - — **bit-error-threshold** *number*
    - — **test-pattern**
      - — **crc-tlv** *boolean*
      - — **pattern** *keyword*

- **grace**
  - **eth-ed**
    - **max-rx-defect-window** *number*
    - **priority** *number*
    - **rx-eth-ed** *boolean*
    - **tx-eth-ed** *boolean*
  - **eth-vsm-grace**
    - **rx-eth-vsm-grace** *boolean*
    - **tx-eth-vsm-grace** *boolean*
  - **low-priority-defect** *keyword*
  - **mac-address** *mac-unicast-address*
  - **one-way-delay-threshold** *number*
- **etree** *boolean*
- **fdb**
  - **discard-unknown** *boolean*
  - **mac-learning**
    - **aging** *boolean*
    - **learning** *boolean*
    - **local-age-time** *number*
    - **remote-age-time** *number*
  - **mac-move**
    - **admin-state** *keyword*
  - **mac-subnet-length** *number*
  - **selective-learning** *boolean*
  - **static-mac**
    - **mac** *mac-unicast-address-no-zero*
      - **blackhole**
      - **endpoint** *string*
      - **mesh-sdp** *string*
      - **monitor** *keyword*
      - **sap** *string*
      - **spoke-sdp** *string*
  - **table**
    - **high-wmark** *number*
    - **low-wmark** *number*
    - **size** *number*
- **gsmp**
  - **admin-state** *keyword*
  - **group** *string*
    - **admin-state** *keyword*
    - **ancp**
      - **dynamic-topology-discovery** *boolean*
      - **oam** *boolean*
    - **description** *string*
    - **hold-multiplier** *number*
    - **idle-filter** *boolean*
    - **keepalive** *number*
    - **neighbor** *ipv4-unicast-address*
      - **admin-state** *keyword*
      - **description** *string*
      - **local-address** *ipv4-unicast-address*
      - **priority-marking**
        - **dscp** *keyword*
        - **prec** *number*

```
        — persistency boolean
    — igmp-host-tracking
        — admin-state keyword
        — expiry-time number
    — igmp-snooping
        — admin-state keyword
        — mvr
            — admin-state keyword
            — description string
            — group-policy string
        — query-interval number
        — query-source-address (keyword | string)
        — report-source-address ipv4-address
        — robust-count number
    — interface interface-name
        — admin-state keyword
        — description string
        — hold-time
            — ipv4
                — down
                    — init-only boolean
                    — seconds number
                — up
                    — seconds number
        — ipv4
            — neighbor-discovery
                — static-neighbor ipv4-address
                    — mac-address mac-address
                — timeout number
            — primary
                — address ipv4-address
                — prefix-length number
        — mac mac-unicast-address
    — load-balancing
        — per-service-hashing boolean
        — spi-load-balancing boolean
        — teid-load-balancing boolean
    — mac-flush
        — tldp
            — propagate boolean
            — send-on-failure boolean
    — mcast-ipv6-snooping-scope keyword
    — mcr-default-gtw
        — ip ipv4-unicast-address
        — mac mac-address
    — mesh-sdp sdp-bind-id
        — accounting-policy string
        — admin-state keyword
        — bfd-liveness
            — encap keyword
        — bfd-template string
        — collect-stats boolean
        — control-word boolean
        — cpu-protection
```

- — **eth-cfm-monitoring**
  - — **aggregate**
  - — **car**
- — **mac-monitoring**
- — **policy-id** *string*
- — **description** *string*
- — **dhcp**
  - — **description** *string*
  - — **snoop** *boolean*
- — **egress**
  - — **filter**
    - — **ip** *string*
    - — **ipv6** *string*
    - — **mac** *string*
  - — **mfib-allowed-mda-destinations**
    - — **mda** *slot-mda*
  - — **qos**
    - — **network**
      - — **policy-name** *string*
      - — **port-redirect-group**
        - — **group-name** *string*
        - — **instance** *number*
  - — **vc-label** *number*
- — **entropy-label**
- — **eth-cfm**
  - — **collect-lmm-fc-stats**
    - — **fc** *keyword*
    - — **fc-in-profile** *keyword*
  - — **collect-lmm-stats** *boolean*
  - — **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
    - — **admin-state** *keyword*
    - — **ais**
      - — **client-meg-level** *number*
      - — **interface-support** *boolean*
      - — **interval** *number*
      - — **low-priority-defect** *keyword*
      - — **priority** *number*
    - — **alarm-notification**
      - — **fng-alarm-time** *number*
      - — **fng-reset-time** *number*
    - — **ccm** *boolean*
    - — **ccm-ltm-priority** *number*
    - — **ccm-padding-size** *number*
    - — **csf**
      - — **multiplier** *decimal-number*
    - — **description** *string*
    - — **direction** *keyword*
    - — **eth-test**
      - — **bit-error-threshold** *number*
      - — **test-pattern**
        - — **crc-tlv** *boolean*
        - — **pattern** *keyword*
    - — **fault-propagation** *keyword*
    - — **grace**

```
            — eth-ed
                — max-rx-defect-window number
                — priority number
                — rx-eth-ed boolean
                — tx-eth-ed boolean
            — eth-vsm-grace
                — rx-eth-vsm-grace boolean
                — tx-eth-vsm-grace boolean
        — lbm-svc-act-responder boolean
        — low-priority-defect keyword
        — mac-address mac-unicast-address
        — one-way-delay-threshold number
        — primary-vlan boolean
    — squelch-ingress-levels number
    — vmep-filter boolean
— etree-leaf boolean
— etree-root-leaf-tag boolean
— fdb
    — auto-learn-mac-protect boolean
    — mac-pinning boolean
    — protected-src-mac-violation-action keyword
— force-vc-forwarding keyword
— hash-label
    — signal-capability
— igmp-snooping
    — fast-leave boolean
    — import-policy string
    — maximum-number-group-sources number
    — maximum-number-groups number
    — maximum-number-sources number
    — mcac
        — bandwidth
            — mandatory (number | keyword)
            — total (number | keyword)
        — interface-policy string
        — policy string
    — mrouter-port boolean
    — query-interval number
    — query-last-member-interval number
    — query-response-interval number
    — robust-count number
    — router-alert-check boolean
    — send-queries boolean
    — static
        — group ipv4-multicast-address
            — source ipv4-unicast-address
            — starg
    — version keyword
— ingress
    — filter
        — ip string
        — ipv6 string
        — mac string
    — qos
```

```
            — network
                — fp-redirect-group
                    — group-name string
                    — instance number
                — policy-name string
            — vc-label number
        — mld-snooping
            — fast-leave boolean
            — import-policy string
            — maximum-number-groups number
            — mrouter-port boolean
            — query-interval number
            — query-last-member-interval number
            — query-response-interval number
            — robust-count number
            — router-alert-check boolean
            — send-queries boolean
            — static
                — group ipv6-multicast-address
                    — source ipv6-unicast-address
                    — starg
            — version keyword
        — vc-type keyword
        — vlan-vc-tag number
    — mfib
        — table
            — high-wmark number
            — low-wmark number
            — size number
    — mld-snooping
        — admin-state keyword
        — mvr
            — admin-state keyword
            — description string
            — group-policy string
        — query-interval number
        — query-source-address (keyword | string)
        — report-source-address ipv6-address
        — robust-count number
    — multicast-info-policy string
    — pbb
        — backbone-vpls string
            — igmp-snooping
                — mrouter-destination string
            — isid number
            — mesh-sdp string
                — igmp-snooping
                    — mrouter-port boolean
                — mld-snooping
                    — mrouter-port boolean
            — mld-snooping
                — mrouter-destination string
            — sap string
                — igmp-snooping
```

```
            — mrouter-port boolean
         — mld-snooping
            — mrouter-port boolean
      — spoke-sdp string
         — igmp-snooping
            — mrouter-port boolean
         — mld-snooping
            — mrouter-port boolean
   — force-qtag-forwarding boolean
   — i-vpls-mac-flush
      — bgp-evpn
         — send-to-bvpls boolean
      — tldp
         — propagate-from-bvpls boolean
         — send-on-bvpls-failure boolean
         — send-to-bvpls
            — all-but-mine boolean
            — all-from-me boolean
   — mac-notification
      — admin-state keyword
      — count number
      — interval number
      — renotify (number | keyword)
   — source-bmac
      — address mac-unicast-address-no-zero
      — use-es-bmac-lsb boolean
      — use-mclag-bmac-lsb boolean
— pbb-type keyword
— pim-snooping
   — group-policy string
   — hold-time number
   — ipv4
      — admin-state keyword
   — ipv6
      — admin-state keyword
— proxy-arp
   — admin-state keyword
   — age-time (number | keyword)
   — duplicate-detect
      — anti-spoof-mac mac-unicast-address-no-zero
      — hold-down-time (number | keyword)
      — num-moves number
      — static-blackhole boolean
      — window number
   — dynamic-arp
      — ip-address ipv4-unicast-address
         — mac-list string
         — resolve-retry-time number
   — dynamic-populate boolean
   — evpn
      — flood
         — gratuitous-arp boolean
         — unknown-arp-req boolean
      — route-tag number
```

- **send-refresh** (*number* | *keyword*)
- **static-arp**
  - **ip-address** *ipv4-unicast-address*
    - **mac** *mac-unicast-address-no-zero*
  - **table-size** *number*
- **proxy-nd**
  - **admin-state** *keyword*
  - **age-time** (*number* | *keyword*)
  - **duplicate-detect**
    - **anti-spoof-mac** *mac-unicast-address-no-zero*
    - **hold-down-time** (*number* | *keyword*)
    - **num-moves** *number*
    - **static-blackhole** *boolean*
    - **window** *number*
  - **dynamic-neighbor**
    - **ip-address** *ipv6-unicast-address*
      - **mac-list** *string*
      - **resolve-retry-time** *number*
  - **dynamic-populate** *boolean*
  - **evpn**
    - **advertise-neighbor-type** *keyword*
    - **flood**
      - **unknown-neighbor-advertise-host** *boolean*
      - **unknown-neighbor-advertise-router** *boolean*
      - **unknown-neighbor-solicitation** *boolean*
    - **route-tag** *number*
  - **send-refresh** (*number* | *keyword*)
  - **static-neighbor**
    - **ip-address** *ipv6-unicast-address*
      - **mac** *mac-unicast-address-no-zero*
      - **type** *keyword*
  - **table-size** *number*
- **routed-vpls**
  - **multicast**
    - **ipv4**
      - **forward-to-ip-interface** *boolean*
      - **igmp-snooping**
        - **mrouter-port** *boolean*
    - **ipv6**
      - **forward-to-ip-interface** *boolean*
      - **mld-snooping**
        - **mrouter-port** *boolean*
  - **vxlan-ipv4-tep-ecmp** *boolean*
- **sap** *sap*
  - **accounting-policy** *string*
  - **admin-state** *keyword*
  - **anti-spoof** *keyword*
  - **arp-host**
    - **admin-state** *keyword*
    - **host-limit** *number*
    - **min-auth-interval** *number*
  - **arp-reply-agent** *keyword*
  - **bandwidth** *number*
  - **calling-station-id** *string*

- **cflowd** *boolean*
- **collect-stats** *boolean*
- **cpu-protection**
  - **eth-cfm-monitoring**
    - **aggregate**
    - **car**
  - **mac-monitoring**
  - **policy-id** *string*
- **description** *string*
- **dhcp**
  - **admin-state** *keyword*
  - **description** *string*
  - **lease-populate**
    - **max-leases** *number*
  - **option-82**
    - **action** *keyword*
    - **circuit-id**
      - **ascii-tuple**
      - **hex-string** *string*
      - **none**
      - **vlan-ascii-tuple**
    - **remote-id**
      - **ascii-string** *string*
      - **hex-string** *string*
      - **mac**
      - **none**
    - **vendor-specific-option**
      - **client-mac-address** *boolean*
      - **sap-id** *boolean*
      - **service-id** *boolean*
      - **string** *string*
      - **system-id** *boolean*
  - **proxy-server**
    - **admin-state** *keyword*
    - **emulated-server** *ipv4-unicast-address*
    - **lease-time**
      - **radius-override** *boolean*
      - **value** *number*
  - **snoop** *boolean*
- **dist-cpu-protection** *string*
- **egress**
  - **agg-rate**
    - **limit-unused-bandwidth** *boolean*
    - **queue-frame-based-accounting** *boolean*
    - **rate** *number*
  - **dest-mac-rewrite** *mac-unicast-address-no-zero*
  - **filter**
    - **ip** *string*
    - **ipv6** *string*
    - **mac** *string*
  - **qos**
    - **policer-control-policy**
      - **overrides**
        - **root**

```
            — max-rate (number | keyword)
            — priority-mbs-thresholds
               — min-thresh-separation (number | keyword)
               — priority number
                  — mbs-contribution (number | keyword)
         — policy-name string
      — qinq-mark-top-only boolean
      — sap-egress
         — overrides
            — hs-secondary-shaper string
            — hs-wrr-group string
               — hs-class-weight number
               — percent-rate decimal-number
               — rate (number | keyword)
            — hsmda-queues
               — packet-byte-offset number
               — queue string
                  — mbs (number | keyword)
                  — rate (number | keyword)
                  — slope-policy string
                  — wrr-weight number
               — secondary-shaper string
               — wrr-policy string
            — policer string
               — cbs (number | keyword)
               — mbs (number | keyword)
               — packet-byte-offset number
               — percent-rate
                  — cir decimal-number
                  — pir decimal-number
               — rate
                  — cir (number | keyword)
                  — pir (number | keyword)
               — stat-mode keyword
            — queue string
               — adaptation-rule
                  — cir keyword
                  — pir keyword
               — avg-frame-overhead decimal-number
               — burst-limit (number | keyword)
               — cbs (number | keyword)
               — drop-tail
                  — low
                     — percent-reduction-from-mbs (number | keyword)
               — hs-class-weight number
               — hs-wred-queue
                  — policy string
               — hs-wrr-weight number
               — mbs (number | keyword)
               — monitor-depth boolean
               — parent
                  — cir-weight number
                  — weight number
               — percent-rate
```

```
                        — cir decimal-number
                        — pir decimal-number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
                — policy-name string
                — port-redirect-group
                    — group-name string
                    — instance number
            — scheduler-policy
                — overrides
                    — scheduler string
                        — parent
                            — cir-weight number
                            — weight number
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
                — policy-name string
    — eth-cfm
        — collect-lmm-fc-stats
            — fc keyword
            — fc-in-profile keyword
        — collect-lmm-stats boolean
        — mep md-admin-name string ma-admin-name string mep-id number
            — admin-state keyword
            — ais
                — client-meg-level number
                — interface-support boolean
                — interval number
                — low-priority-defect keyword
                — priority number
            — alarm-notification
                — fng-alarm-time number
                — fng-reset-time number
            — ccm boolean
            — ccm-ltm-priority number
            — ccm-padding-size number
            — csf
                — multiplier decimal-number
            — description string
            — direction keyword
            — eth-test
                — bit-error-threshold number
                — test-pattern
                    — crc-tlv boolean
                    — pattern keyword
            — fault-propagation keyword
            — grace
                — eth-ed
                    — max-rx-defect-window number
                    — priority number
                    — rx-eth-ed boolean
                    — tx-eth-ed boolean
```

```
            — eth-vsm-grace
                — rx-eth-vsm-grace boolean
                — tx-eth-vsm-grace boolean
            — lbm-svc-act-responder boolean
            — low-priority-defect keyword
            — mac-address mac-unicast-address
            — one-way-delay-threshold number
            — primary-vlan boolean
        — squelch-ingress-levels number
        — vmep-filter boolean
    — eth-ring number
    — etree-leaf boolean
    — etree-root-leaf-tag
        — leaf number
    — fdb
        — auto-learn-mac-protect boolean
        — discard-unknown-source boolean
        — discard-unprotected-dest-mac boolean
        — limit-mac-move keyword
        — mac-learning
            — aging boolean
            — learning boolean
        — mac-pinning boolean
        — maximum-mac-addresses number
        — protected-src-mac-violation-action keyword
    — host-admin-state keyword
    — host-lockout-policy string
    — i-vpls-mac-flush
        — bgp-evpn
            — send-to-bvpls boolean
    — igmp-host-tracking
        — expiry-time number
        — import-policy string
        — maximum-number-group-sources number
        — maximum-number-groups number
        — maximum-number-sources number
        — router-alert-check boolean
    — igmp-snooping
        — fast-leave boolean
        — import-policy string
        — maximum-number-group-sources number
        — maximum-number-groups number
        — maximum-number-sources number
        — mcac
            — bandwidth
                — mandatory (number | keyword)
                — total (number | keyword)
            — interface-policy string
            — mc-constraints
                — level number
                    — bandwidth number
                — number-down number
                    — level number
                — use-lag-port-weight boolean
```

```
        — policy string
    — mrouter-port boolean
    — mvr
        — from-vpls string
        — to-sap sap
    — query-interval number
    — query-last-member-interval number
    — query-response-interval number
    — robust-count number
    — router-alert-check boolean
    — send-queries boolean
    — static
        — group ipv4-multicast-address
            — source ipv4-unicast-address
            — starg
    — version keyword
— ingress
    — filter
        — ip string
        — ipv6 string
        — mac string
    — qos
        — match-qinq-dot1p keyword
        — policer-control-policy
            — overrides
                — root
                    — max-rate (number | keyword)
                    — priority-mbs-thresholds
                        — min-thresh-separation (number | keyword)
                        — priority number
                            — mbs-contribution (number | keyword)
            — policy-name string
        — sap-ingress
            — fp-redirect-group
                — group-name string
                — instance number
            — overrides
                — policer string
                    — cbs (number | keyword)
                    — mbs (number | keyword)
                    — packet-byte-offset number
                    — percent-rate
                        — cir decimal-number
                        — pir decimal-number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
                    — stat-mode keyword
                — queue string
                    — adaptation-rule
                        — cir keyword
                        — pir keyword
                    — cbs (number | keyword)
                    — drop-tail
```

```
                        — low
                            — percent-reduction-from-mbs (number | keyword)
                    — mbs (number | keyword)
                    — monitor-depth boolean
                    — parent
                        — cir-weight number
                        — weight number
                    — percent-rate
                        — cir decimal-number
                        — pir decimal-number
                    — rate
                        — cir (number | keyword)
                        — pir (number | keyword)
                — policy-name string
                — queuing-type keyword
            — scheduler-policy
                — overrides
                    — scheduler string
                        — parent
                            — cir-weight number
                            — weight number
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
                — policy-name string
        — qtag-manipulation
            — push-dot1q-vlan (number | keyword)
    — l2pt
        — termination
            — protocols
                — cdp boolean
                — dtp boolean
                — pagp boolean
                — stp boolean
                — udld boolean
                — vtp boolean
    — l2tpv3-session
        — admin-state keyword
        — pseudo-wire
            — ethernet
            — ethernet-vlan-id number
        — router
            — group string
            — router-instance router-instance-base-vprn-loose
        — vc-id number
    — lag
        — link-map-profile number
        — per-link-hash
            — class number
            — weight number
    — mc-ring
        — ring-node string
    — mld-snooping
        — fast-leave boolean
```

- — **import-policy** *string*
- — **maximum-number-groups** *number*
- — **mrouter-port** *boolean*
- — **mvr**
  - — **from-vpls** *string*
  - — **to-sap** *sap*
- — **query-interval** *number*
- — **query-last-member-interval** *number*
- — **query-response-interval** *number*
- — **robust-count** *number*
- — **router-alert-check** *boolean*
- — **send-queries** *boolean*
- — **static**
  - — **group** *ipv6-multicast-address*
    - — **source** *ipv6-unicast-address*
    - — **starg**
- — **version** *keyword*

— **monitor-oper-group** *string*
— **multi-service-site** *string*
— **oper-group** *string*
— **pim-snooping**
- — **maximum-number-groups** *number*

— **process-cpm-traffic-on-sap-down** *boolean*
— **radius-auth-policy** *string*
— **shcv-policy-ipv4** *string*
— **split-horizon-group** *string*
— **static-host**
- — **ipv4** *ipv4-address* **mac** *mac-unicast-address*
  - — **admin-state** *keyword*
  - — **ancp-string** *ancp-string*
  - — **int-dest-id** *int-dest-id*
  - — **shcv**
  - — **sla-profile** *string*
  - — **sub-profile** *string*
  - — **subscriber-id**
    - — **string** *subscriber-id*
    - — **use-sap-id**

— **stp**
- — **admin-state** *keyword*
- — **auto-edge** *boolean*
- — **edge-port** *boolean*
- — **link-type** *keyword*
- — **path-cost** *number*
- — **port-num** *number*
- — **priority** *number*
- — **root-guard** *boolean*

— **sub-sla-mgmt**
- — **admin-state** *keyword*
- — **defaults**
  - — **int-dest-id**
    - — **string** *int-dest-id*
    - — **top-q-tag**
  - — **sla-profile** *string*
  - — **sub-profile** *string*

```
            — subscriber-id
                — auto-id
                — sap-id
                — string subscriber-id
            — mac-da-hashing boolean
            — single-sub-parameters
                — non-sub-traffic
                    — sla-profile string
                    — sub-profile string
                    — subscriber-id subscriber-id
                — profiled-traffic-only boolean
            — sub-ident-policy string
            — subscriber-limit sap-subscriber-limit
    — service-id number
    — service-mtu number
    — shcv-policy-ipv4 string
    — split-horizon-group string
        — description string
        — fdb
            — saps
                — auto-learn-mac-protect boolean
                — discard-unprotected-dest-mac boolean
                — protected-src-mac-violation-action keyword
        — residential boolean
    — spoke-sdp sdp-bind-id
        — accounting-policy string
        — admin-state keyword
        — bfd-liveness
            — encap keyword
        — bfd-template string
        — block-on-mesh-failure boolean
        — collect-stats boolean
        — control-word boolean
        — cpu-protection
            — eth-cfm-monitoring
                — aggregate
                — car
            — mac-monitoring
            — policy-id string
        — description string
        — dhcp
            — description string
            — snoop boolean
        — egress
            — filter
                — ip string
                — ipv6 string
                — mac string
            — mfib-allowed-mda-destinations
                — mda slot-mda
            — qos
                — network
                    — policy-name string
                    — port-redirect-group
```

```
                — group-name string
                — instance number
        — vc-label number
    — endpoint
        — name string
        — precedence (number | keyword)
    — entropy-label
    — eth-cfm
        — collect-lmm-fc-stats
            — fc keyword
            — fc-in-profile keyword
        — collect-lmm-stats boolean
        — mep md-admin-name string ma-admin-name string mep-id number
            — admin-state keyword
            — ais
                — client-meg-level number
                — interface-support boolean
                — interval number
                — low-priority-defect keyword
                — priority number
            — alarm-notification
                — fng-alarm-time number
                — fng-reset-time number
            — ccm boolean
            — ccm-ltm-priority number
            — ccm-padding-size number
            — csf
                — multiplier decimal-number
            — description string
            — direction keyword
            — eth-test
                — bit-error-threshold number
                — test-pattern
                    — crc-tlv boolean
                    — pattern keyword
            — fault-propagation keyword
            — grace
                — eth-ed
                    — max-rx-defect-window number
                    — priority number
                    — rx-eth-ed boolean
                    — tx-eth-ed boolean
                — eth-vsm-grace
                    — rx-eth-vsm-grace boolean
                    — tx-eth-vsm-grace boolean
            — lbm-svc-act-responder boolean
            — low-priority-defect keyword
            — mac-address mac-unicast-address
            — one-way-delay-threshold number
            — primary-vlan boolean
        — squelch-ingress-levels number
        — vmep-filter boolean
    — etree-leaf boolean
    — etree-root-leaf-tag boolean
```

- **fdb**
  - **auto-learn-mac-protect** *boolean*
  - **discard-unknown-source** *boolean*
  - **limit-mac-move** *keyword*
  - **mac-learning**
    - **aging** *boolean*
    - **learning** *boolean*
  - **mac-pinning** *boolean*
  - **maximum-mac-addresses** *number*
  - **protected-src-mac-violation-action** *keyword*
- **force-vc-forwarding** *keyword*
- **hash-label**
  - **signal-capability**
- **i-vpls-mac-flush**
  - **bgp-evpn**
    - **send-to-bvpls** *boolean*
- **igmp-snooping**
  - **fast-leave** *boolean*
  - **import-policy** *string*
  - **maximum-number-group-sources** *number*
  - **maximum-number-groups** *number*
  - **maximum-number-sources** *number*
  - **mcac**
    - **bandwidth**
      - **mandatory** (*number* | *keyword*)
      - **total** (*number* | *keyword*)
    - **interface-policy** *string*
    - **policy** *string*
  - **mrouter-port** *boolean*
  - **query-interval** *number*
  - **query-last-member-interval** *number*
  - **query-response-interval** *number*
  - **robust-count** *number*
  - **router-alert-check** *boolean*
  - **send-queries** *boolean*
  - **static**
    - **group** *ipv4-multicast-address*
      - **source** *ipv4-unicast-address*
      - **starg**
  - **version** *keyword*
- **ignore-standby-signaling** *boolean*
- **ingress**
  - **filter**
    - **ip** *string*
    - **ipv6** *string*
    - **mac** *string*
  - **qos**
    - **network**
      - **fp-redirect-group**
        - **group-name** *string*
        - **instance** *number*
      - **policy-name** *string*
  - **vc-label** *number*
- **l2pt**

- **termination**
  - **protocols**
    - **cdp** *boolean*
    - **dtp** *boolean*
    - **pagp** *boolean*
    - **stp** *boolean*
    - **udld** *boolean*
    - **vtp** *boolean*
- **mld-snooping**
  - **fast-leave** *boolean*
  - **import-policy** *string*
  - **maximum-number-groups** *number*
  - **mrouter-port** *boolean*
  - **query-interval** *number*
  - **query-last-member-interval** *number*
  - **query-response-interval** *number*
  - **robust-count** *number*
  - **router-alert-check** *boolean*
  - **send-queries** *boolean*
  - **static**
    - **group** *ipv6-multicast-address*
      - **source** *ipv6-unicast-address*
      - **starg**
  - **version** *keyword*
- **monitor-oper-group** *string*
- **oper-group** *string*
- **pim-snooping**
  - **maximum-number-groups** *number*
- **pw-status**
  - **signaling** *boolean*
- **split-horizon-group** *string*
- **stp**
  - **admin-state** *keyword*
  - **auto-edge** *boolean*
  - **edge-port** *boolean*
  - **link-type** *keyword*
  - **path-cost** *number*
  - **port-num** *number*
  - **priority** *number*
  - **root-guard** *boolean*
- **vc-type** *keyword*
- **vlan-vc-tag** *number*

- **stp**
  - **admin-state** *keyword*
  - **forward-delay** *number*
  - **hello-time** *number*
  - **hold-count** *number*
  - **maximum-age** *number*
  - **mode** *keyword*
  - **priority** *number*
- **temp-flooding** *number*
- **vpn-id** *number*
- **vxlan**
  - **instance** *number*

```
            — assisted-replication
                — leaf
                    — acttime number
                — replicator
            — egress-vtep (ipv4-address-no-zone | ipv6-address-no-zone)
            — fdb
                — discard-unknown-source boolean
                — mac-learning
                    — aging boolean
                    — learning boolean
                — maximum-mac-addresses number
                — protected-src-mac-violation-action keyword
            — igmp-snooping
                — mrouter-port boolean
            — mld-snooping
                — mrouter-port boolean
            — network
                — ingress
                    — qos
                        — network
                            — fp-redirect-group
                                — group-name string
                                — instance number
                            — policy-name string
            — rx-discard-on-ndf keyword
            — source-vtep-security boolean
            — vni number
        — source-vtep (ipv4-address-no-zone | ipv6-address-no-zone)
    — wlan-gw
        — admin-state keyword
        — description string
        — sap-template string
— vprn service-name
    — aaa
        — remote-servers
            — radius
                — access-algorithm keyword
                — accounting boolean
                — accounting-port number
                — admin-state keyword
                — authorization boolean
                — interactive-authentication boolean
                — port number
                — server number
                    — address (ipv4-address-no-zone | ipv6-address-no-zone)
                    — secret encrypted-leaf
                — server-retry number
                — server-timeout number
                — use-default-template boolean
            — tacplus
                — accounting
                    — record-type keyword
                — admin-state keyword
                — authorization
```

```
            — use-priv-lvl boolean
         — interactive-authentication boolean
         — priv-lvl-map
            — priv-lvl number
               — user-profile-name string
         — server number
            — address (ipv4-address-no-zone | ipv6-address-no-zone)
            — port number
            — secret encrypted-leaf
         — server-timeout number
         — use-default-template boolean
— admin-state keyword
— aggregates
   — aggregate (ipv4-prefix | ipv6-prefix)
      — aggregator
         — address ipv4-unicast-address
         — as-number number
      — as-set boolean
      — blackhole
         — generate-icmp boolean
      — community community
      — description string
      — indirect (ipv4-address-no-zone | ipv6-address-no-zone)
      — local-preference number
      — summary-only boolean
— allow-export-bgp-vpn boolean
— auto-bind-tunnel
   — ecmp number
   — enforce-strict-tunnel-tagging boolean
   — resolution keyword
   — resolution-filter
      — bgp boolean
      — gre boolean
      — ldp boolean
      — mpls-fwd-policy boolean
      — rib-api boolean
      — rsvp boolean
      — sr-isis boolean
      — sr-ospf boolean
      — sr-policy boolean
      — sr-te boolean
      — udp boolean
   — weighted-ecmp boolean
— autonomous-system number
— bgp
   — admin-state keyword
   — advertise-inactive boolean
   — aggregator-id-zero boolean
   — asn-4-byte boolean
   — authentication-key encrypted-leaf
   — authentication-keychain string
   — backup-path
      — ipv4 boolean
      — ipv6 boolean
```

- — **label-ipv4** *boolean*
- — **best-path-selection**
  - — **always-compare-med**
    - — **med-value** *keyword*
    - — **strict-as** *boolean*
  - — **as-path-ignore**
    - — **ipv4** *boolean*
    - — **ipv6** *boolean*
    - — **label-ipv4** *boolean*
  - — **deterministic-med** *boolean*
  - — **ebgp-ibgp-equal**
    - — **ipv4** *boolean*
    - — **ipv6** *boolean*
    - — **label-ipv4** *boolean*
  - — **ignore-nh-metric** *boolean*
  - — **ignore-router-id**
- — **bfd-liveness** *boolean*
- — **client-reflect** *boolean*
- — **cluster**
  - — **cluster-id** *ipv4-address*
- — **connect-retry** *number*
- — **damp-peer-oscillations**
  - — **error-interval** *number*
  - — **idle-hold-time**
    - — **initial-wait** *number*
    - — **max-wait** *number*
    - — **second-wait** *number*
- — **damping** *boolean*
- — **description** *string*
- — **dynamic-neighbor-limit** *number*
- — **eibgp-loadbalance** *boolean*
- — **enforce-first-as** *boolean*
- — **error-handling**
  - — **update-fault-tolerance** *boolean*
- — **export**
  - — **policy** *string*
- — **family**
  - — **flow-ipv4** *boolean*
  - — **flow-ipv6** *boolean*
  - — **ipv4** *boolean*
  - — **ipv6** *boolean*
  - — **label-ipv4** *boolean*
  - — **mcast-ipv4** *boolean*
  - — **mcast-ipv6** *boolean*
- — **fast-external-failover** *boolean*
- — **flowspec**
  - — **validate-dest-prefix** *boolean*
  - — **validate-redirect-ip** *boolean*
- — **graceful-restart**
  - — **gr-notification** *boolean*
  - — **long-lived**
    - — **advertise-stale-to-all-neighbors** *boolean*
    - — **advertised-stale-time** *number*
    - — **family** *keyword*

```
            — advertised-stale-time number
            — helper-override-stale-time number
         — forwarding-bits-set keyword
         — helper-override-restart-time number
         — helper-override-stale-time number
         — without-no-export boolean
      — restart-time number
      — stale-routes-time number
   — group string
      — admin-state keyword
      — advertise-inactive boolean
      — aggregator-id-zero boolean
      — as-override boolean
      — asn-4-byte boolean
      — authentication-key encrypted-leaf
      — authentication-keychain string
      — bfd-liveness boolean
      — capability-negotiation boolean
      — client-reflect boolean
      — cluster
         — cluster-id ipv4-address
      — connect-retry number
      — damp-peer-oscillations
         — error-interval number
         — idle-hold-time
            — initial-wait number
            — max-wait number
            — second-wait number
      — damping boolean
      — description string
      — dynamic-neighbor
         — prefix (ipv4-prefix | ipv6-prefix)
      — dynamic-neighbor-limit number
      — enforce-first-as boolean
      — error-handling
         — update-fault-tolerance boolean
      — export
         — policy string
      — family
         — flow-ipv4 boolean
         — flow-ipv6 boolean
         — ipv4 boolean
         — ipv6 boolean
         — label-ipv4 boolean
         — mcast-ipv4 boolean
         — mcast-ipv6 boolean
      — fast-external-failover boolean
      — graceful-restart
         — gr-notification boolean
         — long-lived
            — advertise-stale-to-all-neighbors boolean
            — advertised-stale-time number
            — family keyword
               — advertised-stale-time number
```

- **helper-override-stale-time** *number*
- **forwarding-bits-set** *keyword*
- **helper-override-restart-time** *number*
- **helper-override-stale-time** *number*
- **without-no-export** *boolean*
- **restart-time** *number*
- **stale-routes-time** *number*

- **hold-time**
- **minimum-hold-time** *number*
- **seconds** *number*

- **import**
- **policy** *string*

- **initial-send-delay-zero** *boolean*
- **keepalive** *number*
- **label-preference** *number*
- **link-bandwidth**
- **accept-from-ebgp**
- **ipv4** *boolean*
- **ipv6** *boolean*
- **label-ipv4** *boolean*

- **add-to-received-ebgp**
- **ipv4** *boolean*
- **ipv6** *boolean*
- **label-ipv4** *boolean*

- **aggregate-used-paths**
- **ipv4** *boolean*
- **ipv6** *boolean*
- **label-ipv4** *boolean*

- **send-to-ebgp**
- **ipv4** *boolean*
- **ipv6** *boolean*
- **label-ipv4** *boolean*

- **local-address** (*union* | *string*)
- **local-as**
- **as-number** *number*
- **prepend-global-as** *boolean*
- **private** *boolean*

- **local-preference** *number*
- **loop-detect** *keyword*
- **med-out** (*number* | *keyword*)
- **min-route-advertisement** *number*
- **monitor**
- **admin-state** *keyword*
- **all-stations** *boolean*
- **route-monitoring**
- **post-policy** *boolean*
- **pre-policy** *boolean*

- **station** *string*

- **multihop** *number*
- **next-hop-self** *boolean*
- **passive** *boolean*
- **path-mtu-discovery** *boolean*
- **peer-as** *number*
- **peer-ip-tracking** *boolean*

- **preference** *number*
- **prefix-limit** *keyword*
  - **idle-timeout** *number*
  - **log-only** *boolean*
  - **maximum** *number*
  - **post-import** *boolean*
  - **threshold** *number*
- **remove-private**
  - **limited** *boolean*
  - **skip-peer-as** *boolean*
- **send-communities**
  - **extended** *boolean*
  - **large** *boolean*
  - **standard** *boolean*
- **split-horizon** *boolean*
- **static-group** *boolean*
- **third-party-nexthop** *boolean*
- **ttl-security** *number*
- **type** *keyword*

- **hold-time**
  - **minimum-hold-time** *number*
  - **seconds** *number*
- **ibgp-multipath** *boolean*
- **import**
  - **policy** *string*
- **initial-send-delay-zero** *boolean*
- **keepalive** *number*
- **label-preference** *number*
- **local-as**
  - **as-number** *number*
  - **prepend-global-as** *boolean*
  - **private** *boolean*
- **local-preference** *number*
- **loop-detect** *keyword*
- **med-out** (*number* | *keyword*)
- **min-route-advertisement** *number*
- **monitor**
  - **admin-state** *keyword*
  - **all-stations** *boolean*
  - **route-monitoring**
    - **post-policy** *boolean*
    - **pre-policy** *boolean*
  - **station** *string*
- **multihop** *number*
- **multipath**
  - **ebgp** *number*
  - **ibgp** *number*
  - **max-paths** *number*
  - **restrict** *keyword*
- **neighbor** (*ipv4-address* | *ipv6-address*)
  - **admin-state** *keyword*
  - **advertise-inactive** *boolean*
  - **aggregator-id-zero** *boolean*
  - **as-override** *boolean*

- **asn-4-byte** *boolean*
- **authentication-key** *encrypted-leaf*
- **authentication-keychain** *string*
- **bfd-liveness** *boolean*
- **capability-negotiation** *boolean*
- **client-reflect** *boolean*
- **cluster**
  - **cluster-id** *ipv4-address*
- **connect-retry** *number*
- **damp-peer-oscillations**
  - **error-interval** *number*
  - **idle-hold-time**
    - **initial-wait** *number*
    - **max-wait** *number*
    - **second-wait** *number*
- **damping** *boolean*
- **description** *string*
- **enforce-first-as** *boolean*
- **error-handling**
  - **update-fault-tolerance** *boolean*
- **export**
  - **policy** *string*
- **family**
  - **flow-ipv4** *boolean*
  - **flow-ipv6** *boolean*
  - **ipv4** *boolean*
  - **ipv6** *boolean*
  - **label-ipv4** *boolean*
  - **mcast-ipv4** *boolean*
  - **mcast-ipv6** *boolean*
- **fast-external-failover** *boolean*
- **graceful-restart**
  - **gr-notification** *boolean*
  - **long-lived**
    - **advertise-stale-to-all-neighbors** *boolean*
    - **advertised-stale-time** *number*
    - **family** *keyword*
      - **advertised-stale-time** *number*
      - **helper-override-stale-time** *number*
    - **forwarding-bits-set** *keyword*
    - **helper-override-restart-time** *number*
    - **helper-override-stale-time** *number*
    - **without-no-export** *boolean*
  - **restart-time** *number*
  - **stale-routes-time** *number*
- **group** *string*
- **hold-time**
  - **minimum-hold-time** *number*
  - **seconds** *number*
- **import**
  - **policy** *string*
- **initial-send-delay-zero** *boolean*
- **keepalive** *number*
- **label-preference** *number*

- **link-bandwidth**
  - **accept-from-ebgp**
    - **ipv4** *boolean*
    - **ipv6** *boolean*
    - **label-ipv4** *boolean*
  - **add-to-received-ebgp**
    - **ipv4** *boolean*
    - **ipv6** *boolean*
    - **label-ipv4** *boolean*
  - **aggregate-used-paths**
    - **ipv4** *boolean*
    - **ipv6** *boolean*
    - **label-ipv4** *boolean*
  - **send-to-ebgp**
    - **ipv4** *boolean*
    - **ipv6** *boolean*
    - **label-ipv4** *boolean*
- **local-address** (*union* | *string*)
- **local-as**
  - **as-number** *number*
  - **prepend-global-as** *boolean*
  - **private** *boolean*
- **local-preference** *number*
- **loop-detect** *keyword*
- **med-out** (*number* | *keyword*)
- **min-route-advertisement** *number*
- **monitor**
  - **admin-state** *keyword*
  - **all-stations** *boolean*
  - **route-monitoring**
    - **post-policy** *boolean*
    - **pre-policy** *boolean*
  - **station** *string*
- **multihop** *number*
- **next-hop-self** *boolean*
- **passive** *boolean*
- **path-mtu-discovery** *boolean*
- **peer-as** *number*
- **peer-creation-type** *keyword*
- **peer-ip-tracking** *boolean*
- **preference** *number*
- **prefix-limit** *keyword*
  - **idle-timeout** *number*
  - **log-only** *boolean*
  - **maximum** *number*
  - **post-import** *boolean*
  - **threshold** *number*
- **remove-private**
  - **limited** *boolean*
  - **skip-peer-as** *boolean*
- **send-communities**
  - **extended** *boolean*
  - **large** *boolean*
  - **standard** *boolean*

- — **split-horizon** *boolean*
- — **third-party-nexthop** *boolean*
- — **ttl-security** *number*
- — **type** *keyword*
- — **next-hop-resolution**
  - — **policy** *string*
- — **path-mtu-discovery** *boolean*
- — **peer-ip-tracking** *boolean*
- — **peer-tracking-policy** *string*
- — **preference** *number*
- — **rapid-withdrawal** *boolean*
- — **remove-private**
  - — **limited** *boolean*
  - — **skip-peer-as** *boolean*
- — **rib-management**
  - — **ipv4**
    - — **leak-import**
      - — **policy** *string*
    - — **route-table-import**
      - — **policy-name** *string*
  - — **ipv6**
    - — **leak-import**
      - — **policy** *string*
    - — **route-table-import**
      - — **policy-name** *string*
  - — **label-ipv4**
    - — **leak-import**
      - — **policy** *string*
    - — **route-table-import**
      - — **policy-name** *string*
- — **router-id** *ipv4-address*
- — **send-communities**
  - — **extended** *boolean*
  - — **large** *boolean*
  - — **standard** *boolean*
- — **split-horizon** *boolean*
- — **third-party-nexthop** *boolean*

— **bgp-shared-queue**
- — **cir** (*kilobytes* | *keyword*)
- — **pir** (*kilobytes* | *keyword*)

— **bgp-vpn-backup**
- — **ipv4** *boolean*
- — **ipv6** *boolean*

— **carrier-carrier-vpn** *boolean*

— **confederation**
- — **confed-as-num** *number*
- — **members** *number*

— **customer** *string*

— **description** *string*

— **dhcp-server**
- — **dhcpv4** *string*
  - — **admin-state** *keyword*
  - — **description** *string*
  - — **failover**

```
        — admin-state keyword
        — ignore-mclt-on-takeover boolean
        — maximum-client-lead-time number
        — partner-down-delay number
        — peer string
            — sync-tag string
        — startup-wait-time number
    — force-renews boolean
    — lease-hold
        — additional-scenarios
            — internal-lease-ipsec boolean
            — solicited-release boolean
        — time number
    — pool string
        — description string
        — failover
            — admin-state keyword
            — ignore-mclt-on-takeover boolean
            — maximum-client-lead-time number
            — partner-down-delay number
            — peer string
                — sync-tag string
            — startup-wait-time number
        — max-lease-time number
        — min-lease-time number
        — minimum-free
            — absolute number
            — event-when-depleted boolean
            — percent number
        — nak-non-matching-subnet boolean
        — offer-time number
        — options
            — option (number | keyword)
                — ascii-string string
                — duration number
                — empty
                — hex-string string
                — ipv4-address ipv4-address
                — netbios-node-type keyword
        — subnet ipv4-unicast-prefix
            — address-range ipv4-unicast-address end ipv4-unicast-address
                — failover-control-type keyword
            — drain boolean
            — exclude-addresses ipv4-unicast-address end ipv4-unicast-address
            — maximum-declined number
            — minimum-free
                — absolute number
                — event-when-depleted boolean
                — percent number
            — options
                — option (number | keyword)
                    — ascii-string string
                    — duration number
                    — empty
```

```
                    — hex-string string
                    — ipv4-address ipv4-address
                    — netbios-node-type keyword
            — pool-selection
                — use-gi-address
                    — scope keyword
                — use-pool-from-client
                    — delimiter string
            — user-db string
            — user-identification keyword
        — dhcpv6 string
            — admin-state keyword
            — auto-provisioned boolean
            — defaults
                — options
                    — option (number | keyword)
                        — ascii-string string
                        — domain-string string
                        — duration number
                        — empty
                        — hex-string string
                        — ipv6-address ipv6-address
                — preferred-lifetime number
                — rebind-time number
                — renew-time number
                — valid-lifetime number
            — description string
            — failover
                — admin-state keyword
                — ignore-mclt-on-takeover boolean
                — maximum-client-lead-time number
                — partner-down-delay number
                — peer string
                    — sync-tag string
                — startup-wait-time number
            — ignore-rapid-commit boolean
            — interface-id-mapping boolean
            — lease-hold
                — additional-scenarios
                    — internal-lease-ipsec boolean
                    — solicited-release boolean
                — time number
            — lease-query boolean
            — pool string
                — delegated-prefix
                    — length number
                    — maximum number
                    — minimum number
                — description string
                — exclude-prefix ipv6-prefix
                — failover
                    — admin-state keyword
                    — ignore-mclt-on-takeover boolean
                    — maximum-client-lead-time number
```

```
            — partner-down-delay number
            — peer string
               — sync-tag string
            — startup-wait-time number
         — options
            — option (number | keyword)
               — ascii-string string
               — domain-string string
               — duration number
               — empty
               — hex-string string
               — ipv6-address ipv6-address
         — prefix ipv6-prefix
            — drain boolean
            — failover-control-type keyword
            — options
               — option (number | keyword)
                  — ascii-string string
                  — domain-string string
                  — duration number
                  — empty
                  — hex-string string
                  — ipv6-address ipv6-address
            — preferred-lifetime number
            — prefix-length-threshold number
               — absolute number
               — event-when-depleted boolean
               — percent number
            — prefix-type
               — pd boolean
               — wan-host boolean
            — rebind-time number
            — renew-time number
            — valid-lifetime number
         — prefix-length-threshold number
            — event-when-depleted boolean
            — minimum-free-percent number
      — pool-selection
         — use-link-address
            — scope keyword
         — use-pool-from-client
            — delimiter string
      — server-id
         — duid-enterprise
            — ascii-string string
            — hex-string string
         — duid-link-local
      — user-identification keyword
— dns
   — admin-state keyword
   — ipv4-source-address (keyword | string)
   — ipv6-source-address (keyword | string)
   — server (ipv4-address-no-zone | ipv6-address-no-zone)
— ecmp number
```

- **entropy-label** *boolean*
- **export-inactive-bgp** *boolean*
- **fib-priority** *keyword*
- **firewall**
  - **domain** *string*
    - **admin-state** *keyword*
    - **dhcpv6-server**
      - **name** *string*
      - **router-instance** *string*
    - **nat-group** *string*
    - **prefix** *ipv6-unicast-prefix*
      - **description** *string*
    - **wlan-gw-group** *string*
- **flowspec**
  - **ip-filter-max-size** *number*
  - **ipv6-filter-max-size** *number*
- **grt-leaking**
  - **allow-local-management** *boolean*
  - **export-grt**
    - **policy-name** *string*
  - **export-limit** *number*
  - **export-v6-limit** *number*
  - **grt-lookup** *boolean*
  - **import-grt**
    - **policy-name** *string*
- **gsmp**
  - **admin-state** *keyword*
  - **group** *string*
    - **admin-state** *keyword*
    - **ancp**
      - **dynamic-topology-discovery** *boolean*
      - **oam** *boolean*
    - **description** *string*
    - **hold-multiplier** *number*
    - **idle-filter** *boolean*
    - **keepalive** *number*
    - **neighbor** *ipv4-unicast-address*
      - **admin-state** *keyword*
      - **description** *string*
      - **local-address** *ipv4-unicast-address*
      - **priority-marking**
        - **dscp** *keyword*
        - **prec** *number*
    - **persistency** *boolean*
- **gtp**
  - **s11**
    - **interface** *string*
      - **apn-policy** *string*
    - **peer-profile-map**
      - **prefix** (*ipv4-prefix* | *ipv6-prefix*)
        - **peer-profile** *string*
  - **uplink**
    - **apn** *string*
    - **pdn-type** *keyword*

```
            — peer-profile-map
                — prefix (ipv4-prefix | ipv6-prefix)
                    — peer-profile string
        — hash-label boolean
        — igmp
            — admin-state keyword
            — forwarding-group-interface forwarding-service service-name group-interface-name interface-name
                — admin-state keyword
                — import-policy string
                — maximum-number-group-sources number
                — maximum-number-groups number
                — maximum-number-sources number
                — mcac
                    — bandwidth
                        — mandatory (number | keyword)
                        — total (number | keyword)
                    — interface-policy string
                    — policy string
                — query-interval number
                — query-last-member-interval number
                — query-response-interval number
                — query-source-address ipv4-unicast-address
                — router-alert-check boolean
                — sub-hosts-only boolean
                — subnet-check boolean
                — version keyword
            — group-if-query-source-address ipv4-unicast-address
            — group-interface interface-name
                — admin-state keyword
                — import-policy string
                — maximum-number-group-sources number
                — maximum-number-groups number
                — maximum-number-sources number
                — mcac
                    — bandwidth
                        — mandatory (number | keyword)
                        — total (number | keyword)
                    — interface-policy string
                    — policy string
                — query-interval number
                — query-last-member-interval number
                — query-response-interval number
                — query-source-address ipv4-unicast-address
                — router-alert-check boolean
                — sub-hosts-only boolean
                — subnet-check boolean
                — version keyword
            — interface interface-name
                — admin-state keyword
                — import-policy string
                — maximum-number-group-sources number
                — maximum-number-groups number
                — maximum-number-sources number
                — mcac
```

```
            — bandwidth
                — mandatory (number | keyword)
                — total (number | keyword)
            — interface-policy string
            — mc-constraints
                — level number
                    — bandwidth number
                — number-down number
                    — level number
                — use-lag-port-weight boolean
            — policy string
        — query-interval number
        — query-last-member-interval number
        — query-response-interval number
        — redundant-mcast boolean
        — router-alert-check boolean
        — ssm-translate
            — group-range start ipv4-multicast-address end ipv4-multicast-address
                — source ipv4-unicast-address
        — static
            — group ipv4-multicast-address
                — source ipv4-unicast-address
                — starg
            — group-range start ipv4-multicast-address end ipv4-multicast-address step ipv4-address
                — source ipv4-unicast-address
                — starg
        — subnet-check boolean
        — version keyword
    — query-interval number
    — query-last-member-interval number
    — query-response-interval number
    — robust-count number
    — ssm-translate
        — group-range start ipv4-multicast-address end ipv4-multicast-address
            — source ipv4-unicast-address
— igmp-host-tracking
    — admin-state keyword
    — expiry-time number
— ignore-nh-metric boolean
— interface interface-name
    — admin-state keyword
    — cflowd-parameters
        — sampling keyword
            — direction keyword
            — type keyword
    — cpu-protection string
    — description string
    — hold-time
        — ipv4
            — down
                — init-only boolean
                — seconds number
            — up
                — seconds number
```

```
        — ipv6
            — down
                — init-only boolean
                — seconds number
            — up
                — seconds number
    — if-attribute
        — admin-group string
        — srlg-group string
    — ingress-stats boolean
    — ip-mtu number
    — ipv4
        — addresses
            — address ipv4-unicast-address
                — prefix-length number
        — allow-directed-broadcasts boolean
        — bfd
            — admin-state keyword
            — echo-receive number
            — multiplier number
            — receive number
            — transmit-interval number
            — type keyword
        — dhcp
            — admin-state keyword
            — description string
            — gi-address ipv4-unicast-address
            — lease-populate
                — max-leases number
            — option-82
                — action keyword
                — circuit-id
                    — ascii-tuple
                    — ifindex
                    — none
                    — sap-id
                    — vlan-ascii-tuple
                — remote-id
                    — ascii-string string
                    — mac
                    — none
                — vendor-specific-option
                    — client-mac-address boolean
                    — pool-name boolean
                    — sap-id boolean
                    — service-id boolean
                    — string string
                    — system-id boolean
            — proxy-server
                — admin-state keyword
                — emulated-server ipv4-unicast-address
                — lease-time
                    — radius-override boolean
                    — value number
```

- — **python-policy** *string*
- — **relay-plain-bootp** *boolean*
- — **relay-proxy**
  - — **release-update-src-ip** *boolean*
  - — **siaddr-override** *ipv4-unicast-address*
- — **server** *ipv4-unicast-address*
- — **src-ip-addr** *keyword*
- — **trusted** *boolean*
- — **use-arp** *boolean*

— **icmp**
- — **mask-reply** *boolean*
- — **param-problem**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*
- — **redirects**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*
- — **ttl-expired**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*
- — **unreachables**
  - — **admin-state** *keyword*
  - — **number** *number*
  - — **seconds** *number*

— **ip-helper-address** *ipv4-unicast-address*
— **local-dhcp-server** *string*
— **neighbor-discovery**
- — **learn-unsolicited** *boolean*
- — **limit**
  - — **log-only** *boolean*
  - — **max-entries** *number*
  - — **threshold** *number*
- — **local-proxy-arp** *boolean*
- — **populate** *boolean*
- — **populate-host** *boolean*
- — **proactive-refresh** *boolean*
- — **proxy-arp-policy** *string*
- — **remote-proxy-arp** *boolean*
- — **retry-timer** *number*
- — **route-tag** *number*
- — **static-neighbor** *ipv4-address*
  - — **mac-address** *mac-address*
- — **static-neighbor-unnumbered**
  - — **mac-address** *mac-address*
- — **timeout** *number*

— **primary**
- — **address** *ipv4-unicast-address*
- — **broadcast** *keyword*
- — **prefix-length** *number*
- — **track-srrp** *number*

— **qos-route-lookup** *keyword*

- **secondary** *ipv4-unicast-address*
  - **broadcast** *keyword*
  - **igp-inhibit** *boolean*
  - **prefix-length** *number*
  - **track-srrp** *number*
- **tcp-mss** *number*
- **unnumbered**
  - **ip-address** *ipv4-unicast-address*
  - **ip-int-name** *interface-name*
- **urpf-check**
  - **ignore-default** *boolean*
  - **mode** *keyword*
- **vrrp** *number*
  - **admin-state** *keyword*
  - **authentication-key** *encrypted-leaf*
  - **backup** *ipv4-unicast-address*
  - **bfd-liveness**
    - **dest-ip** *ipv4-address*
    - **interface-name** *interface-name*
    - **service-name** *string*
  - **init-delay** *number*
  - **mac** *mac-unicast-address*
  - **master-int-inherit** *boolean*
  - **message-interval** *number*
  - **oper-group** *string*
  - **owner**
  - **passive** *boolean*
  - **ping-reply** *boolean*
  - **policy** *string*
  - **preempt** *boolean*
  - **priority** *number*
  - **ssh-reply** *boolean*
  - **standby-forwarding** *boolean*
  - **telnet-reply** *boolean*
  - **traceroute-reply** *boolean*
- **ipv6**
  - **address** *ipv6-address*
    - **duplicate-address-detection** *boolean*
    - **eui-64** *boolean*
    - **prefix-length** *number*
    - **primary-preference** *number*
    - **track-srrp** *number*
  - **bfd**
    - **admin-state** *keyword*
    - **echo-receive** *number*
    - **multiplier** *number*
    - **receive** *number*
    - **transmit-interval** *number*
    - **type** *keyword*
  - **dhcp6**
    - **relay**
      - **admin-state** *keyword*
      - **description** *string*
      - **lease-populate**

```
            — max-nbr-of-leases number
            — route-populate
                — na boolean
                — pd
                    — exclude boolean
                — ta boolean
        — link-address ipv6-address
        — neighbor-resolution boolean
        — option
            — interface-id
                — ascii-tuple
                — if-index
                — sap-id
                — string string
            — remote-id boolean
        — python-policy string
        — server ipv6-address-with-zone
        — source-address ipv6-unicast-or-linklocal-address
        — user-db string
    — server
        — max-nbr-of-leases number
        — prefix-delegation
            — admin-state keyword
            — prefix ipv6-prefix
                — client-id
                    — duid string
                    — iaid number
                — preferred-lifetime (number | keyword)
                — valid-lifetime (number | keyword)
— duplicate-address-detection boolean
— icmp6
    — packet-too-big
        — admin-state keyword
        — number number
        — seconds number
    — param-problem
        — admin-state keyword
        — number number
        — seconds number
    — redirects
        — admin-state keyword
        — number number
        — seconds number
    — time-exceeded
        — admin-state keyword
        — number number
        — seconds number
    — unreachables
        — admin-state keyword
        — number number
        — seconds number
— link-local-address
    — address ipv6-address
    — duplicate-address-detection boolean
```

- **local-dhcp-server** *string*
- **neighbor-discovery**
  - **learn-unsolicited** *keyword*
  - **limit**
    - **log-only** *boolean*
    - **max-entries** *number*
    - **threshold** *number*
  - **local-proxy-nd** *boolean*
  - **populate-host** *boolean*
  - **proactive-refresh** *keyword*
  - **proxy-nd-policy** *string*
  - **reachable-time** *number*
  - **route-tag** *number*
  - **secure-nd**
    - **admin-state** *keyword*
    - **allow-unsecured-msgs** *boolean*
    - **public-key-min-bits** *number*
    - **security-parameter** *number*
  - **stale-time** *number*
  - **static-neighbor** *ipv6-address*
    - **mac-address** *mac-address*
- **qos-route-lookup** *keyword*
- **tcp-mss** *number*
- **urpf-check**
  - **ignore-default** *boolean*
  - **mode** *keyword*
- **vrrp** *number*
  - **admin-state** *keyword*
  - **backup** *ipv6-address*
  - **bfd-liveness**
    - **dest-ip** *ipv6-address*
    - **interface-name** *interface-name*
    - **service-name** *string*
  - **init-delay** *number*
  - **mac** *mac-unicast-address*
  - **master-int-inherit** *boolean*
  - **message-interval** *number*
  - **oper-group** *string*
  - **owner**
  - **passive** *boolean*
  - **ping-reply** *boolean*
  - **policy** *string*
  - **preempt** *boolean*
  - **priority** *number*
  - **standby-forwarding** *boolean*
  - **telnet-reply** *boolean*
  - **traceroute-reply** *boolean*
- **load-balancing**
  - **ip-load-balancing** *keyword*
  - **spi-load-balancing** *boolean*
  - **teid-load-balancing** *boolean*
- **loopback** *boolean*
- **mac** *mac-unicast-address*
- **mac-accounting** *boolean*

- **monitor-oper-group** *string*
- **ptp-hw-assist**
  - **admin-state** *keyword*
- **radius-auth-policy** *string*
- **sap** *sap*
  - **accounting-policy** *string*
  - **admin-state** *keyword*
  - **anti-spoof** *keyword*
  - **bandwidth** *number*
  - **calling-station-id** *string*
  - **collect-stats** *boolean*
  - **cpu-protection**
    - **eth-cfm-monitoring**
      - **aggregate**
      - **car**
    - **ip-src-monitoring**
    - **mac-monitoring**
    - **policy-id** *string*
  - **description** *string*
  - **dist-cpu-protection** *string*
  - **egress**
    - **agg-rate**
      - **limit-unused-bandwidth** *boolean*
      - **queue-frame-based-accounting** *boolean*
      - **rate** *number*
    - **filter**
      - **ip** *string*
      - **ipv6** *string*
    - **qos**
      - **policer-control-policy**
        - **overrides**
          - **root**
            - **max-rate** (*number* | *keyword*)
            - **priority-mbs-thresholds**
              - **min-thresh-separation** (*number* | *keyword*)
              - **priority** *number*
                - **mbs-contribution** (*number* | *keyword*)
        - **policy-name** *string*
      - **qinq-mark-top-only** *boolean*
      - **sap-egress**
        - **overrides**
          - **hs-secondary-shaper** *string*
          - **hs-wrr-group** *string*
            - **hs-class-weight** *number*
            - **percent-rate** *decimal-number*
            - **rate** (*number* | *keyword*)
          - **hsmda-queues**
            - **packet-byte-offset** *number*
            - **queue** *string*
              - **mbs** (*number* | *keyword*)
              - **rate** (*number* | *keyword*)
              - **slope-policy** *string*
              - **wrr-weight** *number*
            - **secondary-shaper** *string*

```
            — wrr-policy string
         — policer string
            — cbs (number | keyword)
            — mbs (number | keyword)
            — packet-byte-offset number
            — percent-rate
               — cir decimal-number
               — pir decimal-number
            — rate
               — cir (number | keyword)
               — pir (number | keyword)
            — stat-mode keyword
         — queue string
            — adaptation-rule
               — cir keyword
               — pir keyword
            — avg-frame-overhead decimal-number
            — burst-limit (number | keyword)
            — cbs (number | keyword)
            — drop-tail
               — low
                  — percent-reduction-from-mbs (number | keyword)
            — hs-class-weight number
            — hs-wred-queue
               — policy string
            — hs-wrr-weight number
            — mbs (number | keyword)
            — monitor-depth boolean
            — parent
               — cir-weight number
               — weight number
            — percent-rate
               — cir decimal-number
               — pir decimal-number
            — rate
               — cir (number | keyword)
               — pir (number | keyword)
      — policy-name string
      — port-redirect-group
         — group-name string
         — instance number
   — scheduler-policy
      — overrides
         — scheduler string
            — parent
               — cir-weight number
               — weight number
            — rate
               — cir (number | keyword)
               — pir (number | keyword)
      — policy-name string
   — queue-group-redirect-list string
— eth-cfm
   — collect-lmm-fc-stats
```

- — **fc** *keyword*
- — **fc-in-profile** *keyword*
- — **collect-lmm-stats** *boolean*
- — **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
  - — **admin-state** *keyword*
  - — **ais** *boolean*
  - — **alarm-notification**
    - — **fng-alarm-time** *number*
    - — **fng-reset-time** *number*
  - — **ccm** *boolean*
  - — **ccm-ltm-priority** *number*
  - — **ccm-padding-size** *number*
  - — **csf**
    - — **multiplier** *decimal-number*
  - — **description** *string*
  - — **eth-test**
    - — **bit-error-threshold** *number*
    - — **test-pattern**
      - — **crc-tlv** *boolean*
      - — **pattern** *keyword*
  - — **fault-propagation** *keyword*
  - — **grace**
    - — **eth-ed**
      - — **max-rx-defect-window** *number*
      - — **priority** *number*
      - — **rx-eth-ed** *boolean*
      - — **tx-eth-ed** *boolean*
    - — **eth-vsm-grace**
      - — **rx-eth-vsm-grace** *boolean*
      - — **tx-eth-vsm-grace** *boolean*
  - — **low-priority-defect** *keyword*
  - — **one-way-delay-threshold** *number*
- — **squelch-ingress-levels** *number*
- — **fwd-wholesale**
  - — **pppoe-service** *string*
- — **host-admin-state** *keyword*
- — **host-lockout-policy** *string*
- — **ingress**
  - — **filter**
    - — **ip** *string*
    - — **ipv6** *string*
  - — **qos**
    - — **match-qinq-dot1p** *keyword*
    - — **policer-control-policy**
      - — **overrides**
        - — **root**
          - — **max-rate** (*number* | *keyword*)
          - — **priority-mbs-thresholds**
            - — **min-thresh-separation** (*number* | *keyword*)
            - — **priority** *number*
              - — **mbs-contribution** (*number* | *keyword*)
      - — **policy-name** *string*
    - — **sap-ingress**
      - — **fp-redirect-group**

```
            — group-name string
            — instance number
         — overrides
            — policer string
               — cbs (number | keyword)
               — mbs (number | keyword)
               — packet-byte-offset number
               — percent-rate
                  — cir decimal-number
                  — pir decimal-number
               — rate
                  — cir (number | keyword)
                  — pir (number | keyword)
               — stat-mode keyword
            — queue string
               — adaptation-rule
                  — cir keyword
                  — pir keyword
               — cbs (number | keyword)
               — drop-tail
                  — low
                     — percent-reduction-from-mbs (number | keyword)
               — mbs (number | keyword)
               — monitor-depth boolean
               — parent
                  — cir-weight number
                  — weight number
               — percent-rate
                  — cir decimal-number
                  — pir decimal-number
               — rate
                  — cir (number | keyword)
                  — pir (number | keyword)
         — policy-name string
         — queuing-type keyword
      — scheduler-policy
         — overrides
            — scheduler string
               — parent
                  — cir-weight number
                  — weight number
               — rate
                  — cir (number | keyword)
                  — pir (number | keyword)
         — policy-name string
   — queue-group-redirect-list string
— ip-tunnel interface-name
   — admin-state keyword
   — backup-remote-ip-address (ipv4-address-no-zone | ipv6-address-no-zone)
   — clear-df-bit boolean
   — delivery-service service-name
   — description string
   — dest-ip (ipv4-address-no-zone | ipv6-address-no-zone)
   — dscp keyword
```

- **encapsulated-ip-mtu** *number*
- **gre-header**
  - **admin-state** *keyword*
  - **key**
    - **admin-state** *keyword*
    - **receive** *number*
    - **send** *number*
- **icmp6-generation**
  - **packet-too-big**
    - **admin-state** *keyword*
    - **number** *number*
    - **seconds** *number*
- **ip-mtu** *number*
- **local-ip-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- **private-tcp-mss-adjust** *number*
- **public-tcp-mss-adjust** (*number* | *keyword*)
- **reassembly** (*number* | *keyword*)
- **remote-ip-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

ipsec-gateway *string*
- **admin-state** *keyword*
- **default-secure-service**
  - **interface** *interface-name*
  - **service-name** *service-name*
- **default-tunnel-template** *string*
- **ike-policy** *string*
- **local**
  - **gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  - **id**
    - **auto**
    - **fqdn** *string*
    - **ipv4** *ipv4-unicast-address*
    - **ipv6** *ipv6-unicast-address*
- **max-history-key-records**
  - **esp** *number*
  - **ike** *number*
- **pre-shared-key** *encrypted-leaf*

lag
- **link-map-profile** *number*
- **per-link-hash**
  - **class** *number*
  - **weight** *number*

multi-service-site *string*

static-host
- **ipv4** *ipv4-address* **mac** *mac-unicast-address*
  - **admin-state** *keyword*
  - **ancp-string** *ancp-string*
  - **int-dest-id** *int-dest-id*
  - **sla-profile** *string*
  - **sub-profile** *string*
  - **subscriber-id**
    - **string** *subscriber-id*
    - **use-sap-id**

shcv-policy-ipv4 *string*

spoke-sdp *sdp-bind-id*

- **accounting-policy** *string*
- **admin-state** *keyword*
- **bfd-liveness**
  - **encap** *keyword*
- **bfd-template** *string*
- **collect-stats** *boolean*
- **control-word** *boolean*
- **cpu-protection**
  - **eth-cfm-monitoring**
    - **aggregate**
    - **car**
  - **ip-src-monitoring**
  - **mac-monitoring**
  - **policy-id** *string*
- **description** *string*
- **egress**
  - **filter**
    - **ip** *string*
    - **ipv6** *string*
  - **qos**
    - **network**
      - **policy-name** *string*
      - **port-redirect-group**
        - **group-name** *string*
        - **instance** *number*
  - **vc-label** *number*
- **entropy-label**
- **eth-cfm**
  - **collect-lmm-fc-stats**
    - **fc** *keyword*
    - **fc-in-profile** *keyword*
  - **collect-lmm-stats** *boolean*
  - **mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
    - **admin-state** *keyword*
    - **ais** *boolean*
    - **alarm-notification**
      - **fng-alarm-time** *number*
      - **fng-reset-time** *number*
    - **ccm** *boolean*
    - **ccm-ltm-priority** *number*
    - **ccm-padding-size** *number*
    - **csf**
      - **multiplier** *decimal-number*
    - **description** *string*
    - **eth-test**
      - **bit-error-threshold** *number*
      - **test-pattern**
        - **crc-tlv** *boolean*
        - **pattern** *keyword*
    - **fault-propagation** *keyword*
    - **grace**
      - **eth-ed**
        - **max-rx-defect-window** *number*
        - **priority** *number*

```
                        — rx-eth-ed boolean
                        — tx-eth-ed boolean
                    — eth-vsm-grace
                        — rx-eth-vsm-grace boolean
                        — tx-eth-vsm-grace boolean
                — low-priority-defect keyword
                — one-way-delay-threshold number
            — squelch-ingress-levels number
        — hash-label
            — signal-capability
        — ingress
            — filter
                — ip string
                — ipv6 string
            — qos
                — network
                    — fp-redirect-group
                        — group-name string
                        — instance number
                    — policy-name string
            — vc-label number
        — vc-type keyword
    — tos-marking-state keyword
    — tunnel boolean
    — vas-if-type keyword
    — vpls string
        — egress
            — reclassify-using-qos string
            — routed-override-filter
                — ip string
                — ipv6 string
        — evpn-tunnel
            — ipv6-gateway-address keyword
        — ingress
            — routed-override-filter
                — ip string
                — ipv6 string
— ip-mirror-interface interface-name
    — admin-state keyword
    — description string
    — spoke-sdp sdp-bind-id
        — admin-state keyword
        — description string
        — ingress
            — filter
                — ip string
            — vc-label number
— ipv6
    — neighbor-discovery
        — reachable-time number
        — stale-time number
    — router-advertisement
        — dns-options
            — rdnss-lifetime (keyword | number)
```

```
            — server ipv6-address
         — interface string
            — admin-state keyword
            — current-hop-limit number
            — dns-options
               — include-rdnss boolean
               — rdnss-lifetime (number | keyword)
               — server ipv6-address
            — managed-configuration boolean
            — max-advertisement-interval number
            — min-advertisement-interval number
            — mtu number
            — other-stateful-configuration boolean
            — prefix ipv6-prefix
               — autonomous boolean
               — on-link boolean
               — preferred-lifetime (keyword | number)
               — valid-lifetime (keyword | number)
            — reachable-time number
            — retransmit-time number
            — router-lifetime number
            — use-virtual-mac boolean
   — isis number
      — admin-state keyword
      — advertise-passive-only boolean
      — advertise-router-capability keyword
      — all-l1isis mac-address
      — all-l2isis mac-address
      — area-address area-address
      — authentication-check boolean
      — authentication-key encrypted-leaf
      — authentication-keychain string
      — authentication-type keyword
      — csnp-authentication boolean
      — default-route-tag number
      — export-limit
         — log-percent number
         — number number
      — export-policy string
      — graceful-restart
         — helper-mode boolean
      — hello-authentication boolean
      — hello-padding keyword
      — ignore-attached-bit boolean
      — ignore-lsp-errors boolean
      — ignore-narrow-metric boolean
      — iid-tlv boolean
      — import-policy string
      — interface interface-name
         — admin-state keyword
         — bfd-liveness
            — ipv4
               — include-bfd-tlv boolean
            — ipv6
```

- **include-bfd-tlv** *boolean*
- **csnp-interval** *number*
- **default-instance** *boolean*
- **hello-authentication** *boolean*
- **hello-authentication-key** *encrypted-leaf*
- **hello-authentication-keychain** *string*
- **hello-authentication-type** *keyword*
- **hello-padding** *keyword*
- **interface-type** *keyword*
- **ipv4-multicast** *boolean*
- **ipv6-unicast** *boolean*
- **level** *keyword*
  - **hello-authentication-key** *encrypted-leaf*
  - **hello-authentication-keychain** *string*
  - **hello-authentication-type** *keyword*
  - **hello-interval** *number*
  - **hello-multiplier** *number*
  - **hello-padding** *keyword*
  - **ipv4-multicast-metric** *number*
  - **ipv6-unicast-metric** *number*
  - **metric** *number*
  - **passive** *boolean*
  - **priority** *number*
  - **sd-offset** *number*
  - **sf-offset** *number*
- **level-capability** *keyword*
- **load-balancing-weight** *number*
- **loopfree-alternate**
  - **exclude** *boolean*
  - **policy-map**
    - **route-nh-template** *string*
- **lsp-pacing-interval** *number*
- **mesh-group**
  - **blocked**
  - **value** *number*
- **passive** *boolean*
- **retransmit-interval** *number*
- **tag** *number*

- **ipv4-multicast-routing** *keyword*
- **ipv4-routing** *boolean*
- **ipv6-routing** *keyword*
- **level** *keyword*
  - **advertise-router-capability** *boolean*
  - **authentication-key** *encrypted-leaf*
  - **authentication-keychain** *string*
  - **authentication-type** *keyword*
  - **csnp-authentication** *boolean*
  - **default-ipv4-multicast-metric** *number*
  - **default-ipv6-unicast-metric** *number*
  - **default-metric** *number*
  - **external-preference** *number*
  - **hello-authentication** *boolean*
  - **hello-padding** *keyword*
  - **loopfree-alternate-exclude** *boolean*

- — **lsp-mtu-size** *number*
- — **preference** *number*
- — **psnp-authentication** *boolean*
- — **wide-metrics-only** *boolean*
- — **level-capability** *keyword*
- — **link-group** *string*
  - — **description** *very-long-description*
  - — **level** *keyword*
    - — **ipv4-multicast-metric-offset** *number*
    - — **ipv4-unicast-metric-offset** *number*
    - — **ipv6-unicast-metric-offset** *number*
    - — **member** *string*
    - — **oper-members** *number*
    - — **revert-members** *number*
- — **loopfree-alternate**
  - — **exclude**
    - — **prefix-policy** *string*
- — **lsp-lifetime** *number*
- — **lsp-mtu-size** *number*
- — **lsp-refresh**
  - — **half-lifetime** *boolean*
  - — **interval** *number*
- — **multi-topology**
  - — **ipv4-multicast** *boolean*
  - — **ipv6-unicast** *boolean*
- — **multicast-import**
  - — **ipv4** *boolean*
- — **overload**
  - — **max-metric** *boolean*
- — **overload-export-external** *boolean*
- — **overload-export-interlevel** *boolean*
- — **overload-on-boot**
  - — **max-metric** *boolean*
  - — **timeout** *number*
- — **poi-tlv** *boolean*
- — **prefix-attributes-tlv** *boolean*
- — **prefix-limit**
  - — **limit** *number*
  - — **log-only** *boolean*
  - — **overload-timeout** (*number* | *keyword*)
  - — **warning-threshold** *number*
- — **psnp-authentication** *boolean*
- — **reference-bandwidth** *number*
- — **rib-priority**
  - — **high**
    - — **prefix-list** *string*
    - — **tag** *number*
- — **router-id** *router-id*
- — **standard-multi-instance** *boolean*
- — **strict-adjacency-check** *boolean*
- — **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
  - — **level-capability** *keyword*
  - — **route-tag** *number*
- — **suppress-attached-bit** *boolean*

- **system-id** *system-id*
- **timers**
  - **lsp-wait**
    - **lsp-initial-wait** *number*
    - **lsp-max-wait** *number*
    - **lsp-second-wait** *number*
  - **spf-wait**
    - **spf-initial-wait** *number*
    - **spf-max-wait** *number*
    - **spf-second-wait** *number*
- **unicast-import**
  - **ipv4** *boolean*
  - **ipv6** *boolean*

- **l2tp**
  - **admin-state** *keyword*
  - **avp-hiding** *keyword*
  - **challenge** *boolean*
  - **destruct-timeout** *number*
  - **ethernet-tunnel**
    - **reconnect-timeout** (*number* | *keyword*)
  - **exclude-avps**
    - **calling-number** *boolean*
    - **initial-rx-lcp-conf-req** *boolean*
  - **failover**
    - **recovery-max-session-lifetime** *number*
    - **recovery-method** *keyword*
    - **recovery-time** *number*
    - **track-srrp** *number*
      - **peer** *string*
      - **sync-tag** *string*
  - **group** *string*
    - **admin-state** *keyword*
    - **avp-hiding** *keyword*
    - **challenge** *keyword*
    - **description** *string*
    - **destruct-timeout** *number*
    - **ethernet-tunnel**
      - **reconnect-timeout** (*number* | *keyword*)
    - **failover**
      - **recovery-method** *keyword*
      - **recovery-time** *number*
    - **hello-interval** (*number* | *keyword*)
    - **idle-timeout** (*number* | *keyword*)
    - **l2tpv3**
      - **cookie-length** (*number* | *keyword*)
      - **digest-type** *keyword*
      - **nonce-length** *number*
      - **password** *encrypted-leaf*
      - **private-tcp-mss-adjust** (*number* | *keyword*)
      - **public-tcp-mss-adjust** (*number* | *keyword*)
      - **pw-cap-list**
        - **ethernet** *boolean*
        - **ethernet-vlan** *boolean*
      - **rem-router-id** *ipv4-address*

- **track-password-change** *boolean*
- **lac**
  - **df-bit** *keyword*
- **lns**
  - **lns-group** *string*
  - **load-balance-method** *keyword*
  - **mlppp**
    - **admin-state** *keyword*
    - **endpoint**
      - **ip** (*string* | *keyword*)
      - **mac** (*string* | *keyword*)
    - **interleave** *boolean*
    - **max-fragment-delay** (*number* | *keyword*)
    - **max-links** *number*
    - **reassembly-timeout** *number*
    - **short-sequence-numbers** *boolean*
  - **ppp**
    - **authentication** *keyword*
    - **authentication-policy** *string*
    - **chap-challenge-length**
      - **end** *number*
      - **start** *number*
    - **default-group-interface**
      - **interface** *string*
      - **service-name** *service-name*
    - **ipcp-subnet-negotiation** *boolean*
    - **keepalive**
      - **interval** *number*
      - **multiplier** *number*
    - **lcp-force-ack-accm** *boolean*
    - **lcp-ignore-magic-numbers** *boolean*
    - **mtu** *number*
    - **proxy-authentication** *boolean*
    - **proxy-lcp** *boolean*
    - **user-db** *string*
- **local-address** *ipv4-unicast-address*
- **local-name** *host-name*
- **max-retries-estab** *number*
- **max-retries-not-estab** *number*
- **password** *encrypted-leaf*
- **protocol** *keyword*
- **radius-accounting-policy** *string*
- **receive-window-size** *number*
- **session-assign-method** *keyword*
- **session-limit** (*number* | *keyword*)
- **tunnel** *string*
  - **admin-state** *keyword*
  - **auto-establish** *boolean*
  - **avp-hiding** *keyword*
  - **challenge** *keyword*
  - **description** *string*
  - **destruct-timeout** *number*
  - **failover**
    - **recovery-method** *keyword*

- — **recovery-time** *number*
- — **hello-interval** (*number* | *keyword*)
- — **idle-timeout** (*number* | *keyword*)
- — **l2tpv3**
  - — **private-tcp-mss-adjust** (*number* | *keyword*)
  - — **public-tcp-mss-adjust** (*number* | *keyword*)
- — **lac**
  - — **df-bit** *keyword*
- — **lns**
  - — **lns-group** *string*
  - — **load-balance-method** *keyword*
  - — **mlppp**
    - — **admin-state** *keyword*
    - — **endpoint**
      - — **ip** (*string* | *keyword*)
      - — **mac** (*string* | *keyword*)
    - — **interleave** *keyword*
    - — **max-fragment-delay** *number*
    - — **max-links** *number*
    - — **reassembly-timeout** *number*
    - — **short-sequence-numbers** *keyword*
  - — **ppp**
    - — **authentication** *keyword*
    - — **authentication-policy** *string*
    - — **chap-challenge-length**
      - — **end** *number*
      - — **start** *number*
    - — **default-group-interface**
      - — **interface** *string*
      - — **service-name** *service-name*
    - — **ipcp-subnet-negotiation** *keyword*
    - — **keepalive**
      - — **interval** *number*
      - — **multiplier** *number*
    - — **lcp-force-ack-accm** *keyword*
    - — **lcp-ignore-magic-numbers** *keyword*
    - — **mtu** *number*
    - — **proxy-authentication** *keyword*
    - — **proxy-lcp** *keyword*
    - — **user-db** *string*
  - — **local-address** *ipv4-unicast-address*
  - — **local-name** *host-name*
  - — **max-retries-estab** *number*
  - — **max-retries-not-estab** *number*
  - — **password** *encrypted-leaf*
  - — **peer** *ipv4-unicast-address*
  - — **preference** *number*
  - — **radius-accounting-policy** *string*
  - — **receive-window-size** *number*
  - — **remote-name** *host-name*
  - — **session-limit** (*number* | *keyword*)
- — **group-session-limit** *number*
- — **hello-interval** (*number* | *keyword*)
- — **idle-timeout** (*number* | *keyword*)

- **ignore-avps**
  - **sequencing-required** *boolean*
- **l2tpv3**
  - **cookie-length** *number*
  - **digest-type** *keyword*
  - **nonce-length** *number*
  - **password** *encrypted-leaf*
  - **private-tcp-mss-adjust** *number*
  - **public-tcp-mss-adjust** *number*
  - **transport-type**
    - **ip** *boolean*
- **lac**
  - **calling-number-format** *ascii-specification*
  - **cisco-nas-port**
    - **ethernet** *binary-specification*
  - **df-bit** *boolean*
- **local-address** *ipv4-unicast-address*
- **local-name** *host-name*
- **max-retries-estab** *number*
- **max-retries-not-estab** *number*
- **next-attempt** *keyword*
- **password** *encrypted-leaf*
- **peer-address-change-policy** *keyword*
- **radius-accounting-policy** *string*
- **receive-window-size** *number*
- **replace-result-code**
  - **cdn-invalid-dst** *boolean*
  - **cdn-permanent-no-facilities** *boolean*
  - **cdn-temporary-no-facilities** *boolean*
- **rtm-debounce-time** (*number* | *keyword*)
- **session-assign-method** *keyword*
- **session-limit** *number*
- **tunnel-selection-blacklist**
  - **add-tunnel-on**
    - **address-change-timeout** *boolean*
    - **cdn-err-code** *boolean*
    - **cdn-invalid-dst** *boolean*
    - **cdn-permanent-no-facilities** *boolean*
    - **cdn-temporary-no-facilities** *boolean*
    - **stop-ccn-err-code** *boolean*
    - **stop-ccn-other** *boolean*
    - **tx-cdn-not-established-in-time** *boolean*
  - **max-list-length** (*number* | *keyword*)
  - **max-time** *number*
  - **timeout-action** *keyword*
- **tunnel-session-limit** *number*

- **label-mode** *keyword*
- **log**
  - **filter** *number*
    - **default-action** *keyword*
    - **description** *string*
    - **entry** *number*
      - **action** *keyword*
      - **description** *string*

- **match**
  - **application**
    - **eq** *keyword*
    - **neq** *keyword*
  - **event**
    - **eq** *number*
    - **gt** *number*
    - **gte** *number*
    - **lt** *number*
    - **lte** *number*
    - **neq** *number*
  - **message**
    - **eq** *string*
    - **neq** *string*
    - **regexp** *boolean*
  - **severity**
    - **eq** *keyword*
    - **gt** *keyword*
    - **gte** *keyword*
    - **lt** *keyword*
    - **lte** *keyword*
    - **neq** *keyword*
  - **subject**
    - **eq** *string*
    - **neq** *string*
    - **regexp** *boolean*
- **log-id** *number*
  - **admin-state** *keyword*
  - **description** *string*
  - **destination**
    - **netconf**
      - **max-entries** *number*
    - **snmp**
      - **max-entries** *number*
    - **syslog** *string*
  - **filter** *string*
  - **netconf-stream** *string*
  - **python-policy** *string*
  - **source**
    - **change** *boolean*
    - **main** *boolean*
  - **time-format** *keyword*
- **snmp-trap-group** *number*
  - **description** *string*
  - **trap-target** *string*
    - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **description** *string*
    - **notify-community** *string*
    - **port** *number*
    - **replay** *boolean*
    - **security-level** *keyword*
    - **version** *keyword*
- **syslog** *number*
  - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

- **description** *string*
- **facility** *keyword*
- **log-prefix** (*keyword* | *string*)
- **port** *number*
- **severity** *keyword*

- **management**
  - **allow-ssh** *boolean*
  - **allow-telnet** *boolean*
  - **allow-telnet6** *boolean*
- **maximum-ipv4-routes**
  - **log-only** *boolean*
  - **threshold** *number*
  - **value** *number*
- **maximum-ipv6-routes**
  - **log-only** *boolean*
  - **threshold** *number*
  - **value** *number*
- **mc-maximum-routes**
  - **log-only** *boolean*
  - **threshold** *number*
  - **value** *number*
- **mld**
  - **admin-state** *keyword*
  - **forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
    - **admin-state** *keyword*
    - **import-policy** *string*
    - **maximum-number-group-sources** *number*
    - **maximum-number-groups** *number*
    - **maximum-number-sources** *number*
    - **mcac**
      - **bandwidth**
        - **mandatory** (*number* | *keyword*)
        - **total** (*number* | *keyword*)
      - **interface-policy** *string*
      - **policy** *string*
    - **query-interval** *number*
    - **query-last-member-interval** *number*
    - **query-response-interval** *number*
    - **query-source-address** *ipv6-unicast-or-linklocal-address*
    - **router-alert-check** *boolean*
    - **sub-hosts-only** *boolean*
    - **subnet-check** *boolean*
    - **version** *keyword*
  - **group-if-query-source-address** *ipv6-unicast-or-linklocal-address*
  - **group-interface** *interface-name*
    - **admin-state** *keyword*
    - **import-policy** *string*
    - **maximum-number-group-sources** *number*
    - **maximum-number-groups** *number*
    - **maximum-number-sources** *number*
    - **mcac**
      - **bandwidth**
        - **mandatory** (*number* | *keyword*)
        - **total** (*number* | *keyword*)

```
            — interface-policy string
            — policy string
         — query-interval number
         — query-last-member-interval number
         — query-response-interval number
         — query-source-address ipv6-unicast-or-linklocal-address
         — router-alert-check boolean
         — sub-hosts-only boolean
         — subnet-check boolean
         — version keyword
      — interface interface-name
         — admin-state keyword
         — import-policy string
         — maximum-number-group-sources number
         — maximum-number-groups number
         — maximum-number-sources number
         — mcac
            — bandwidth
               — mandatory (number | keyword)
               — total (number | keyword)
            — interface-policy string
            — mc-constraints
               — level number
                  — bandwidth number
               — number-down number
                  — level number
               — use-lag-port-weight boolean
            — policy string
         — query-interval number
         — query-last-member-interval number
         — query-response-interval number
         — router-alert-check boolean
         — ssm-translate
            — group-range start ipv6-multicast-address end ipv6-multicast-address
               — source ipv6-unicast-address
         — static
            — group ipv6-multicast-address
               — source ipv6-unicast-address
               — starg
            — group-range start ipv6-multicast-address end ipv6-multicast-address step ipv6-address
               — source ipv6-unicast-address
               — starg
         — version keyword
      — query-interval number
      — query-last-member-interval number
      — query-response-interval number
      — robust-count number
      — ssm-translate
         — group-range start ipv6-multicast-address end ipv6-multicast-address
            — source ipv6-unicast-address
   — mss-adjust
      — nat-group number
      — segment-size number
   — mtrace2
```

```
        — admin-state keyword
        — udp-port number
    — multicast-info-policy string
    — nat
        — inside
            — l2-aware
                — subscribers ipv4-prefix-with-host-bits
            — large-scale
                — dnat-only
                    — source-prefix-list string
                — dual-stack-lite
                    — admin-state keyword
                    — deterministic
                        — policy-map ipv6-unicast-prefix
                            — admin-state keyword
                            — map ipv6-prefix to ipv6-prefix
                                — first-outside-address ipv4-address
                            — nat-policy string
                    — endpoint ipv6-address
                        — ip-fragmentation keyword
                        — reassembly boolean
                        — tunnel-mtu number
                    — max-subscriber-limit number
                    — subscriber-prefix-length number
                — filters
                    — downstream
                        — ipv4 string
                — nat-policy string
                — nat44
                    — destination-prefix ipv4-unicast-prefix
                        — nat-policy string
                    — deterministic
                        — policy-map ipv4-unicast-prefix
                            — admin-state keyword
                            — map ipv4-address to ipv4-address
                                — first-outside-address ipv4-address
                            — nat-policy string
                    — max-subscriber-limit number
                — nat64
                    — admin-state keyword
                    — drop-zero-ipv4-checksum boolean
                    — insert-ipv6-fragment-header boolean
                    — ip-fragmentation keyword
                    — ipv6-mtu number
                    — prefix ipv6-prefix
                    — subscriber-prefix-length number
                    — tos
                        — downstream
                            — use-ipv4 boolean
                        — upstream
                            — set-tos (keyword | number)
                — redundancy
                    — peer ipv4-unicast-address
                    — peer6 ipv6-unicast-address
```

```
            — steering-route (ipv4-prefix | ipv6-prefix)
         — subscriber-identification
            — admin-state keyword
            — attribute
               — type keyword
               — vendor keyword
            — description string
            — drop-unidentified-traffic boolean
            — radius-proxy-server
               — router-instance string
               — server string
   — map
      — map-domain string
   — outside
      — dnat-only
         — route-limit number
      — filters
         — downstream
            — ipv4 string
            — ipv6 string
         — upstream
            — ipv4 string
            — ipv6 string
      — mtu number
      — pool string
         — address-range ipv4-unicast-address end ipv4-unicast-address
            — description string
            — drain boolean
         — admin-state keyword
         — applications
            — agnostic boolean
         — description string
         — l2-aware
            — external-assignment boolean
         — large-scale
            — deterministic
               — port-reservation number
            — redundancy
               — admin-state keyword
               — export-route ipv4-unicast-prefix
               — follow
                  — name string
                  — router-instance string
               — monitor-route ipv4-unicast-prefix
            — subscriber-limit number
         — mode keyword
         — nat-group string
         — port-forwarding
            — dynamic-block-reservation boolean
            — range-end number
         — port-reservation
            — port-blocks number
            — ports number
         — type keyword
```

```
            — watermarks
                — high number
                — low number
            — wlan-gw-group string
    — network
        — ingress
            — filter
                — ip string
                — ipv6 string
            — qos
                — fp-redirect-group string
                — instance number
                — network-policy string
            — urpf-check boolean
    — network-interface interface-name
        — admin-state keyword
        — cflowd-parameters
            — sampling keyword
                — direction keyword
                — type keyword
        — cpu-protection string
        — description string
        — dist-cpu-protection string
        — egress
            — filter
                — ip string
        — hold-time
            — ipv4
                — down
                    — init-only boolean
                    — seconds number
                — up
                    — seconds number
        — ingress
            — filter
                — ip string
        — ingress-stats boolean
        — ip-mtu number
        — ipv4
            — allow-directed-broadcasts boolean
            — bfd
                — admin-state keyword
                — echo-receive number
                — multiplier number
                — receive number
                — transmit-interval number
                — type keyword
            — icmp
                — mask-reply boolean
                — param-problem
                    — admin-state keyword
                    — number number
                    — seconds number
                — redirects
```

- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **ttl-expired**
- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **unreachables**
- **admin-state** *keyword*
- **number** *number*
- **seconds** *number*
- **neighbor-discovery**
- **retry-timer** *number*
- **static-neighbor** *ipv4-address*
- **mac-address** *mac-address*
- **timeout** *number*
- **primary**
- **address** *ipv4-unicast-address*
- **broadcast** *keyword*
- **prefix-length** *number*
- **secondary** *ipv4-unicast-address*
- **broadcast** *keyword*
- **igp-inhibit** *boolean*
- **prefix-length** *number*
- **tcp-mss** *number*
- **urpf-check**
- **ignore-default** *boolean*
- **mode** *keyword*
- **lag**
- **link-map-profile** *number*
- **per-link-hash**
- **class** *number*
- **weight** *number*
- **load-balancing**
- **ip-load-balancing** *keyword*
- **lsr-load-balancing** *keyword*
- **spi-load-balancing** *boolean*
- **teid-load-balancing** *boolean*
- **loopback**
- **mac** *mac-unicast-address*
- **port** *port-and-encap*
- **qos**
- **egress-instance** *number*
- **egress-port-redirect-group** *string*
- **ingress-fp-redirect-group** *string*
- **ingress-instance** *number*
- **network-policy** *string*
- **tos-marking-state** *keyword*
- **ntp**
- **admin-state** *keyword*
- **authenticate** *boolean*
- **authentication-check** *boolean*
- **authentication-key** *number*
- **key** *encrypted-leaf*

```
        — type keyword
    — broadcast string
        — key-id string
        — ttl number
        — version number
— ospf number
    — admin-state keyword
    — advertise-router-capability keyword
    — area ipv4-address
        — advertise-router-capability boolean
        — area-range ipv4-unicast-prefix
            — advertise boolean
        — blackhole-aggregate boolean
        — export-policy string
        — import-policy string
        — interface interface-name
            — admin-state keyword
            — advertise-router-capability boolean
            — advertise-subnet boolean
            — authentication-key encrypted-leaf
            — authentication-keychain string
            — authentication-type keyword
            — bfd-liveness
                — remain-down-on-failure boolean
            — dead-interval number
            — hello-interval number
            — interface-type keyword
            — loopfree-alternate
                — exclude boolean
                — policy-map
                    — route-nh-template string
            — lsa-filter-out keyword
            — message-digest-key number
                — md5 encrypted-leaf
            — metric number
            — mtu number
            — neighbor ipv4-unicast-address
            — passive boolean
            — poll-interval number
            — priority number
            — retransmit-interval number
            — rib-priority keyword
            — transit-delay number
        — loopfree-alternate-exclude boolean
        — nssa
            — area-range ipv4-unicast-prefix
                — advertise boolean
            — originate-default-route
                — adjacency-check boolean
                — type-nssa boolean
            — redistribute-external boolean
            — summaries boolean
        — sham-link interface-name ip-address ipv4-unicast-address
            — admin-state keyword
```

- — **authentication-key** *encrypted-leaf*
- — **authentication-keychain** *string*
- — **authentication-type** *keyword*
- — **dead-interval** *number*
- — **hello-interval** *number*
- — **message-digest-key** *number*
  - — **md5** *encrypted-leaf*
- — **metric** *number*
- — **retransmit-interval** *number*
- — **transit-delay** *number*

— **stub**
- — **default-metric** *number*
- — **summaries** *boolean*

— **virtual-link** *ipv4-address* **transit-area** *string*
- — **admin-state** *keyword*
- — **authentication-key** *encrypted-leaf*
- — **authentication-keychain** *string*
- — **authentication-type** *keyword*
- — **dead-interval** *number*
- — **hello-interval** *number*
- — **message-digest-key** *number*
  - — **md5** *encrypted-leaf*
- — **retransmit-interval** *number*
- — **transit-delay** *number*

— **compatible-rfc1583** *boolean*
— **export-limit**
- — **log-percent** *number*
- — **number** *number*

— **export-policy** *string*
— **external-db-overflow**
- — **interval** *number*
- — **limit** *number*

— **external-preference** *number*
— **graceful-restart**
- — **helper-mode** *boolean*
- — **strict-lsa-checking** *boolean*

— **ignore-dn-bit** *boolean*
— **import-policy** *string*
— **loopfree-alternate**
- — **exclude**
  - — **prefix-policy** *string*

— **multicast-import** *boolean*
— **overload** *boolean*
— **overload-include-ext-2** *boolean*
— **overload-include-stub** *boolean*
— **overload-on-boot**
- — **timeout** *number*

— **preference** *number*
— **reference-bandwidth** *number*
— **rib-priority**
- — **high**
  - — **prefix-list** *string*

— **router-id** *router-id*
— **rtr-adv-lsa-limit**

- — **log-only** *boolean*
- — **max-lsa-count** *number*
- — **overload-timeout** (*number* | *keyword*)
- — **warning-threshold** *number*
- — **super-backbone** *boolean*
- — **suppress-dn-bit** *boolean*
- — **timers**
- — **incremental-spf-wait** *number*
- — **lsa-accumulate** *number*
- — **lsa-arrival** *number*
- — **lsa-generate**
- — **lsa-initial-wait** *number*
- — **lsa-second-wait** *number*
- — **max-lsa-wait** *number*
- — **redistribute-delay** *number*
- — **spf-wait**
- — **spf-initial-wait** *number*
- — **spf-max-wait** *number*
- — **spf-second-wait** *number*
- — **unicast-import** *boolean*
- — **vpn-domain**
- — **id** *system-id*
- — **type** *keyword*
- — **vpn-tag** *number*
- — **ospf3** *number*
- — **admin-state** *keyword*
- — **advertise-router-capability** *keyword*
- — **area** *ipv4-address*
- — **advertise-router-capability** *boolean*
- — **area-range** (*ipv4-prefix* | *ipv6-prefix*)
- — **advertise** *boolean*
- — **blackhole-aggregate** *boolean*
- — **export-policy** *string*
- — **import-policy** *string*
- — **interface** *interface-name*
- — **admin-state** *keyword*
- — **advertise-router-capability** *boolean*
- — **bfd-liveness**
- — **remain-down-on-failure** *boolean*
- — **dead-interval** *number*
- — **hello-interval** *number*
- — **interface-type** *keyword*
- — **loopfree-alternate**
- — **exclude** *boolean*
- — **policy-map**
- — **route-nh-template** *string*
- — **lsa-filter-out** *keyword*
- — **metric** *number*
- — **mtu** *number*
- — **neighbor** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
- — **passive** *boolean*
- — **poll-interval** *number*
- — **priority** *number*
- — **retransmit-interval** *number*

- **rib-priority** *keyword*
- **transit-delay** *number*
- **key-rollover-interval** *number*
- **loopfree-alternate-exclude** *boolean*
- **nssa**
  - **area-range** (*ipv4-prefix* | *ipv6-prefix*)
    - **advertise** *boolean*
  - **originate-default-route**
    - **adjacency-check** *boolean*
    - **type-nssa** *boolean*
  - **redistribute-external** *boolean*
  - **summaries** *boolean*
- **stub**
  - **default-metric** *number*
  - **summaries** *boolean*
- **virtual-link** *ipv4-address* **transit-area** *string*
  - **admin-state** *keyword*
  - **dead-interval** *number*
  - **hello-interval** *number*
  - **retransmit-interval** *number*
  - **transit-delay** *number*
- **export-limit**
  - **log-percent** *number*
  - **number** *number*
- **export-policy** *string*
- **external-db-overflow**
  - **interval** *number*
  - **limit** *number*
- **external-preference** *number*
- **graceful-restart**
  - **helper-mode** *boolean*
  - **strict-lsa-checking** *boolean*
- **ignore-dn-bit** *boolean*
- **import-policy** *string*
- **loopfree-alternate**
  - **exclude**
    - **prefix-policy** *string*
- **multicast-import** *boolean*
- **overload** *boolean*
- **overload-include-ext-2** *boolean*
- **overload-include-stub** *boolean*
- **overload-on-boot**
  - **timeout** *number*
- **preference** *number*
- **reference-bandwidth** *number*
- **rib-priority**
  - **high**
    - **prefix-list** *string*
- **router-id** *router-id*
- **rtr-adv-lsa-limit**
  - **log-only** *boolean*
  - **max-lsa-count** *number*
  - **overload-timeout** (*number* | *keyword*)
  - **warning-threshold** *number*

- **suppress-dn-bit** *boolean*
- **timers**
  - **incremental-spf-wait** *number*
  - **lsa-accumulate** *number*
  - **lsa-arrival** *number*
  - **lsa-generate**
    - **lsa-initial-wait** *number*
    - **lsa-second-wait** *number*
    - **max-lsa-wait** *number*
  - **redistribute-delay** *number*
  - **spf-wait**
    - **spf-initial-wait** *number*
    - **spf-max-wait** *number*
    - **spf-second-wait** *number*
- **unicast-import** *boolean*

- **pcp**
  - **server** *string*
    - **admin-state** *keyword*
    - **description** *string*
    - **dual-stack-lite-address** *ipv6-unicast-address*
    - **fwd-inside-router** *string*
    - **interface** *string*
    - **policy** *string*

- **pim**
  - **admin-state** *keyword*
  - **apply-to** *keyword*
  - **import**
    - **join-policy** *string*
    - **register-policy** *string*
  - **interface** *interface-name*
    - **admin-state** *keyword*
    - **assert-period** *number*
    - **bfd-liveness**
      - **ipv4** *boolean*
      - **ipv6** *boolean*
    - **bsm-check-rtr-alert** *boolean*
    - **hello-interval** *number*
    - **hello-multiplier** *number*
    - **improved-assert** *boolean*
    - **instant-prune-echo** *boolean*
    - **ipv4**
      - **monitor-oper-group**
        - **name** *string*
        - **operation** *keyword*
        - **priority-delta** *number*
      - **multicast** *boolean*
    - **ipv6**
      - **monitor-oper-group**
        - **name** *string*
        - **operation** *keyword*
        - **priority-delta** *number*
      - **multicast** *boolean*
    - **max-groups** *number*
    - **mcac**

```
            — bandwidth
                — mandatory (number | keyword)
                — total (number | keyword)
            — interface-policy string
            — mc-constraints
                — admin-state keyword
                — level number
                    — bandwidth number
                — number-down number
                    — level number
                — use-lag-port-weight boolean
            — policy string
        — multicast-senders keyword
        — p2mp-ldp-tree-join
            — ipv4 boolean
            — ipv6 boolean
        — priority number
        — sticky-dr
            — priority number
        — three-way-hello boolean
        — tracking-support boolean
    — ipv4
        — admin-state keyword
        — grt-extranet
            — any
            — group-prefix (ipv4-prefix | ipv6-prefix)
                — starg boolean
        — rpf-table keyword
        — ssm-assert-compatible-mode boolean
        — ssm-default-range boolean
    — ipv6
        — admin-state keyword
        — rpf-table keyword
        — ssm-default-range boolean
    — mc-ecmp-balance boolean
    — mc-ecmp-balance-hold number
    — mc-ecmp-hashing
        — rebalance boolean
    — non-dr-attract-traffic boolean
    — rp
        — bootstrap
            — export string
            — import string
        — ipv4
            — anycast ipv4-unicast-address rp-set-peer ipv4-unicast-address
            — auto-rp-discovery boolean
            — bsr-candidate
                — address ipv4-unicast-address
                — admin-state keyword
                — hash-mask-len number
                — priority number
            — rp-candidate
                — address ipv4-unicast-address
                — admin-state keyword
```

```
            — group-range ipv4-multicast-prefix
            — holdtime number
            — priority number
          — static
            — address ipv4-unicast-address
              — group-prefix ipv4-multicast-prefix
              — override boolean
        — ipv6
          — anycast ipv6-unicast-address rp-set-peer ipv6-unicast-address
          — bsr-candidate
            — address ipv6-unicast-address
            — admin-state keyword
            — hash-mask-len number
            — priority number
          — embedded-rp
            — admin-state keyword
            — group-range ipv6-multicast-prefix
          — rp-candidate
            — address ipv6-unicast-address
            — admin-state keyword
            — group-range ipv6-multicast-prefix
            — holdtime number
            — priority number
          — static
            — address ipv6-unicast-address
              — group-prefix ipv6-multicast-prefix
              — override boolean
      — spt-switchover (ipv4-prefix | ipv6-prefix)
        — threshold (number | keyword)
      — ssm-groups
        — group-range (ipv4-prefix | ipv6-prefix)
  — radius
    — proxy string
      — admin-state keyword
      — attribute-matching
        — entry number
          — accounting-server-policy string
          — authentication-server-policy string
          — prefix-string string
          — suffix-string string
        — type number
        — vendor (number | keyword)
      — cache
        — admin-state keyword
        — key
          — attribute-type number
          — packet-type keyword
          — vendor (number | keyword)
        — timeout number
        — track-accounting
          — accounting-off boolean
          — accounting-on boolean
          — interim-update boolean
          — start boolean
```

```
            — stop boolean
         — track-authentication
            — accept boolean
         — track-delete-hold-time number
      — defaults
         — accounting-server-policy string
         — authentication-server-policy string
      — description string
      — interface string
      — load-balance-key
         — attribute-1
            — type number
            — vendor (number | keyword)
         — attribute-2
            — type number
            — vendor (number | keyword)
         — attribute-3
            — type number
            — vendor (number | keyword)
         — attribute-4
            — type number
            — vendor (number | keyword)
         — attribute-5
            — type number
            — vendor (number | keyword)
         — source-ip-udp
      — purpose keyword
      — python-policy string
      — secret encrypted-leaf
      — send-accounting-response boolean
      — wlan-gw
         — address ipv4-unicast-address
         — ipv6-address ipv6-unicast-address
      — wlan-gw-group string
   — server string
      — accept-coa boolean
      — acct-port number
      — address (ipv4-address-no-zone | ipv6-address-no-zone)
      — auth-port number
      — description string
      — pending-requests-limit number
      — python-policy string
      — secret encrypted-leaf
— reassembly
   — nat-group number
— redundant-interface interface-name
   — admin-state keyword
   — description string
   — hold-time
      — ipv4
         — down
            — init-only boolean
            — seconds number
         — up
```

```
                — seconds number
        — ip-mtu number
        — ipv4
            — primary
                — address ipv4-unicast-address
                — prefix-length number
                — remote-ip ipv4-unicast-address
        — spoke-sdp sdp-bind-id
            — admin-state keyword
            — control-word boolean
            — description string
            — egress
                — filter
                    — ip string
                — vc-label number
            — ingress
                — filter
                    — ip string
                — vc-label number
    — rip
        — admin-state keyword
        — authentication-key encrypted-leaf
        — authentication-type keyword
        — bfd-liveness boolean
        — check-zero boolean
        — description string
        — export-limit
            — log-percent number
            — number number
        — export-policy string
        — group string
            — admin-state keyword
            — authentication-key encrypted-leaf
            — authentication-type keyword
            — bfd-liveness boolean
            — check-zero boolean
            — description string
            — export-policy string
            — import-policy string
            — message-size number
            — metric-in number
            — metric-out number
            — neighbor interface-name
                — admin-state keyword
                — authentication-key encrypted-leaf
                — authentication-type keyword
                — bfd-liveness boolean
                — check-zero boolean
                — description string
                — export-policy string
                — import-policy string
                — message-size number
                — metric-in number
                — metric-out number
```

- **preference** *number*
- **receive** *keyword*
- **send** *keyword*
- **split-horizon** *boolean*
- **timers**
  - **flush** *number*
  - **timeout** *number*
  - **update** *number*
- **unicast-address** *ipv4-unicast-address*

- **preference** *number*
- **receive** *keyword*
- **send** *keyword*
- **split-horizon** *boolean*
- **timers**
  - **flush** *number*
  - **timeout** *number*
  - **update** *number*

- **import-policy** *string*
- **message-size** *number*
- **metric-in** *number*
- **metric-out** *number*
- **preference** *number*
- **propagate-metric** *boolean*
- **receive** *keyword*
- **send** *keyword*
- **split-horizon** *boolean*
- **timers**
  - **flush** *number*
  - **timeout** *number*
  - **update** *number*

- **ripng**
  - **admin-state** *keyword*
  - **bfd-liveness** *boolean*
  - **check-zero** *boolean*
  - **description** *string*
  - **export-limit**
    - **log-percent** *number*
    - **number** *number*
  - **export-policy** *string*
  - **group** *string*
    - **admin-state** *keyword*
    - **bfd-liveness** *boolean*
    - **check-zero** *boolean*
    - **description** *string*
    - **export-policy** *string*
    - **import-policy** *string*
    - **message-size** *number*
    - **metric-in** *number*
    - **metric-out** *number*
    - **neighbor** *string*
      - **admin-state** *keyword*
      - **bfd-liveness** *boolean*
      - **check-zero** *boolean*
      - **description** *string*

```
            — export-policy string
            — import-policy string
            — message-size number
            — metric-in number
            — metric-out number
            — preference number
            — receive keyword
            — send keyword
            — split-horizon boolean
            — timers
                — flush number
                — timeout number
                — update number
            — unicast-address ipv6-unicast-address
        — preference number
        — receive keyword
        — send keyword
        — split-horizon boolean
        — timers
            — flush number
            — timeout number
            — update number
    — import-policy string
    — message-size number
    — metric-in number
    — metric-out number
    — preference number
    — receive keyword
    — send keyword
    — split-horizon boolean
    — timers
        — flush number
        — timeout number
        — update number
— route-distinguisher (keyword | vpn-route-distinguisher)
— router-id router-id
— selective-fib boolean
— service-id number
— sfm-overload
    — holdoff-time number
— sgt-qos
    — dot1p
        — application keyword
            — dot1p (keyword | number)
    — dscp
        — application keyword
            — dscp (keyword | number)
        — dscp-map keyword
            — fc keyword
— snmp
    — access boolean
    — community encrypted-leaf
        — access-permissions keyword
        — source-access-list string
```

- **version** *keyword*
- **source-address**
  - **ipv4** *keyword*
    - **address** *ipv4-address*
    - **interface-name** *interface-name*
  - **ipv6** *keyword*
    - **address** *ipv6-address*
- **spoke-sdp** *sdp-bind-id*
  - **description** *string*
- **static-routes**
  - **hold-down**
    - **initial** *number*
    - **max-value** *number*
    - **multiplier** *number*
  - **route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
    - **blackhole**
      - **admin-state** *keyword*
      - **community** *community*
      - **description** *description-allow-all-white-spaces*
      - **generate-icmp** *boolean*
      - **metric** *number*
      - **preference** *number*
      - **prefix-list**
        - **flag** *keyword*
        - **name** *string*
      - **tag** *number*
    - **community** *community*
    - **grt**
      - **admin-state** *keyword*
      - **description** *description-allow-all-white-spaces*
      - **metric** *number*
      - **preference** *number*
    - **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
      - **admin-state** *keyword*
      - **community** *community*
      - **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **drop-count** *number*
        - **interval** *number*
        - **log** *boolean*
        - **padding-size** *number*
      - **description** *description-allow-all-white-spaces*
      - **destination-class** *number*
      - **metric** *number*
      - **preference** *number*
      - **prefix-list**
        - **flag** *keyword*
        - **name** *string*
      - **qos**
        - **forwarding-class** *keyword*
        - **priority** *keyword*
      - **source-class** *number*
      - **tag** *number*
    - **interface** *interface-name*
      - **admin-state** *keyword*

- **community** *community*
- **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
  - **drop-count** *number*
  - **interval** *number*
  - **log** *boolean*
  - **padding-size** *number*
- **description** *description-allow-all-white-spaces*
- **destination-class** *number*
- **load-balancing-weight** *number*
- **metric** *number*
- **preference** *number*
- **prefix-list**
  - **flag** *keyword*
  - **name** *string*
- **qos**
  - **forwarding-class** *keyword*
  - **priority** *keyword*
- **source-class** *number*
- **tag** *number*

- **ipsec-tunnel** *string*
  - **admin-state** *keyword*
  - **community** *community*
  - **description** *description-allow-all-white-spaces*
  - **destination-class** *number*
  - **metric** *number*
  - **preference** *number*
  - **qos**
    - **forwarding-class** *keyword*
    - **priority** *keyword*
  - **source-class** *number*
  - **tag** *number*
- **next-hop** (*ipv4-address* | *ipv6-address*)
  - **admin-state** *keyword*
  - **bfd-liveness** *boolean*
  - **community** *community*
  - **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **drop-count** *number*
    - **interval** *number*
    - **log** *boolean*
    - **padding-size** *number*
  - **description** *description-allow-all-white-spaces*
  - **destination-class** *number*
  - **load-balancing-weight** *number*
  - **metric** *number*
  - **preference** *number*
  - **prefix-list**
    - **flag** *keyword*
    - **name** *string*
  - **qos**
    - **forwarding-class** *keyword*
    - **priority** *keyword*
  - **source-class** *number*
  - **tag** *number*
  - **validate-next-hop** *boolean*

- **tag** *number*
- **subscriber-interface** *interface-name*
  - **admin-state** *keyword*
  - **arp-host**
    - **admin-state** *keyword*
    - **host-limit** *number*
  - **description** *string*
  - **fwd-service** *string*
  - **fwd-subscriber-interface** *string*
  - **group-interface** *interface-name*
    - **admin-state** *keyword*
    - **arp-host**
      - **admin-state** *keyword*
      - **host-limit** *number*
      - **min-auth-interval** *number*
      - **sap-host-limit** *number*
    - **bonding-parameters**
      - **admin-state** *keyword*
      - **connection** *connection-index*
        - **service** *service-name*
      - **fpe** *string*
      - **multicast**
        - **connection** *multicast-bonding-connection*
    - **brg**
      - **admin-state** *keyword*
      - **authenticated-brg-only** *boolean*
      - **default-brg-profile** *string*
    - **cflowd-parameters**
      - **sampling** *keyword*
        - **direction** *keyword*
        - **type** *keyword*
    - **data-trigger**
      - **admin-state** *keyword*
    - **description** *string*
    - **dynamic-routes-track-srrp**
      - **hold-time** *number*
    - **gtp-parameters**
      - **admin-state** *keyword*
      - **fpe** *string*
    - **gx-policy** *string*
    - **ingress-stats** *boolean*
    - **ip-mtu** *number*
    - **ipoe-linking**
      - **admin-state** *keyword*
      - **gratuitous-router-advertisement** *boolean*
      - **shared-circuit-id** *boolean*
    - **ipoe-session**
      - **admin-state** *keyword*
      - **description** *string*
      - **force-auth**
        - **cid-change** *boolean*
        - **rid-change** *boolean*
      - **ipoe-session-policy** *string*
      - **min-auth-interval** *ipoe-session-min-auth-interval*

```
        — radius-session-timeout ipoe-session-radius-session-timeout
        — sap-session-limit number
        — session-limit number
        — stateless-redundancy boolean
        — user-db string
    — ipv4
        — dhcp
            — admin-state keyword
            — client-applications
                — dhcp boolean
                — ppp boolean
            — description string
            — filter string
            — gi-address ipv4-unicast-address
            — lease-populate
                — l2-header
                    — mac mac-unicast-address
                — max-leases number
            — match-circuit-id boolean
            — option-82
                — action keyword
                — circuit-id
                    — ascii-tuple
                    — ifindex
                    — none
                    — sap-id
                    — vlan-ascii-tuple
                — remote-id
                    — ascii-string string
                    — mac
                    — none
                — vendor-specific-option
                    — client-mac-address boolean
                    — pool-name boolean
                    — sap-id boolean
                    — service-id boolean
                    — string string
                    — system-id boolean
            — proxy-server
                — admin-state keyword
                — emulated-server ipv4-unicast-address
                — lease-time
                    — radius-override boolean
                    — value number
            — python-policy string
            — relay-proxy
                — release-update-src-ip boolean
                — siaddr-override ipv4-unicast-address
            — server ipv4-unicast-address
            — src-ip-addr keyword
            — trusted boolean
            — user-db string
        — icmp
            — mask-reply boolean
```

- **param-problem**
  - **admin-state** *keyword*
  - **number** *number*
  - **seconds** *number*
- **redirects**
  - **admin-state** *keyword*
  - **number** *number*
  - **seconds** *number*
- **ttl-expired**
  - **admin-state** *keyword*
  - **number** *number*
  - **seconds** *number*
- **unreachables**
  - **admin-state** *keyword*
  - **number** *number*
  - **seconds** *number*

- **neighbor-discovery**
  - **local-proxy-arp** *boolean*
  - **populate** *boolean*
  - **proxy-arp-policy** *string*
  - **remote-proxy-arp** *boolean*
  - **timeout** *number*
- **qos-route-lookup** *keyword*
- **urpf-check**
  - **mode** *keyword*

- **ipv6**
  - **allow-multiple-wan-addresses** *boolean*
  - **auto-reply**
    - **neighbor-solicitation** *boolean*
    - **router-solicitation** *boolean*
  - **dhcp6**
    - **filter** *string*
    - **option**
      - **interface-id**
        - **ascii-tuple**
        - **if-index**
        - **sap-id**
        - **string** *string*
      - **remote-id** *boolean*
    - **override-slaac** *boolean*
    - **pd-managed-route**
      - **next-hop** *keyword*
    - **proxy-server**
      - **admin-state** *keyword*
      - **client-applications**
        - **dhcp** *boolean*
        - **ppp** *boolean*
      - **preferred-lifetime** *dhcp6-prefix-lifetime*
      - **rebind-timer** *dhcp6-rebind-timer*
      - **renew-timer** *dhcp6-renew-timer*
      - **server-id**
        - **duid-en-ascii** *string*
        - **duid-en-hex** *string*
        - **duid-ll**

```
            — valid-lifetime dhcp6-prefix-lifetime
        — python-policy string
        — relay
            — admin-state keyword
            — client-applications
                — dhcp boolean
                — ppp boolean
            — description string
            — link-address ipv6-address
            — server ipv6-address-with-zone
            — source-address ipv6-unicast-address
        — snooping
            — admin-state keyword
        — user-db string
        — user-ident keyword
    — ipoe-bridged-mode boolean
    — neighbor-discovery
        — dad-snooping boolean
        — neighbor-limit number
    — qos-route-lookup keyword
    — router-advertisements
        — admin-state keyword
        — force-mcast keyword
        — max-advertisement-interval number
        — min-advertisement-interval number
        — options
            — current-hop-limit number
            — dns
                — include-rdnss boolean
                — rdnss-lifetime (number | keyword)
            — managed-configuration boolean
            — mtu (number | keyword)
            — other-stateful-configuration boolean
            — reachable-time number
            — retransmit-timer number
            — router-lifetime (number | keyword)
        — prefix-options
            — autonomous boolean
            — on-link boolean
            — preferred-lifetime router-advertisement-prefix-options-lifetime
            — valid-lifetime router-advertisement-prefix-options-lifetime
    — router-solicit
        — admin-state keyword
        — inactivity-timer (number | keyword)
        — min-auth-interval number
        — user-db string
    — urpf-check
        — mode keyword
— local-address-assignment
    — admin-state keyword
    — ipv4
        — client-applications
            — ipoe boolean
            — ppp boolean
```

```
            — default-pool string
            — server string
         — ipv6
            — client-applications
               — ipoe-slaac boolean
               — ipoe-wan boolean
               — ppp-slaac boolean
            — server string
      — mac mac-unicast-address
      — nasreq-auth-policy string
      — oper-up-while-empty boolean
      — pppoe
         — admin-state keyword
         — anti-spoof pppoe-anti-spoof
         — description string
         — policy string
         — python-policy string
         — sap-session-limit number
         — session-limit number
         — user-db string
      — radius-auth-policy string
      — redundant-interface string
      — sap sap
         — accounting-policy string
         — admin-state keyword
         — anti-spoof keyword
         — calling-station-id string
         — collect-stats boolean
         — cpu-protection
            — eth-cfm-monitoring
               — aggregate
               — car
            — ip-src-monitoring
            — mac-monitoring
            — policy-id string
         — default-host
            — ipv4 string prefix-length number
               — next-hop ipv4-unicast-address
            — ipv6 ipv6-unicast-address prefix-length number
               — next-hop ipv6-unicast-address
         — description string
         — dist-cpu-protection string
         — egress
            — agg-rate
               — limit-unused-bandwidth boolean
               — queue-frame-based-accounting boolean
               — rate number
            — filter
               — ip string
               — ipv6 string
            — qos
               — policer-control-policy
                  — policy-name string
               — qinq-mark-top-only boolean
```

```
        — sap-egress
            — policy-name string
        — scheduler-policy
            — policy-name string
    — eth-cfm
        — collect-lmm-fc-stats
            — fc keyword
            — fc-in-profile keyword
        — collect-lmm-stats boolean
        — mep md-admin-name string ma-admin-name string mep-id number
            — admin-state keyword
            — ais boolean
            — alarm-notification
                — fng-alarm-time number
                — fng-reset-time number
            — ccm boolean
            — ccm-ltm-priority number
            — ccm-padding-size number
            — csf
                — multiplier decimal-number
            — description string
            — eth-test
                — bit-error-threshold number
                — test-pattern
                    — crc-tlv boolean
                    — pattern keyword
            — fault-propagation keyword
            — grace
                — eth-ed
                    — max-rx-defect-window number
                    — priority number
                    — rx-eth-ed boolean
                    — tx-eth-ed boolean
                — eth-vsm-grace
                    — rx-eth-vsm-grace boolean
                    — tx-eth-vsm-grace boolean
            — low-priority-defect keyword
            — one-way-delay-threshold number
        — squelch-ingress-levels number
    — fwd-wholesale
        — pppoe-service string
    — host-admin-state keyword
    — host-lockout-policy string
    — igmp-host-tracking
        — expiry-time number
        — import-policy string
        — maximum-number-group-sources number
        — maximum-number-groups number
        — maximum-number-sources number
        — router-alert-check boolean
    — ingress
        — filter
            — ip string
            — ipv6 string
```

- **qos**
  - **match-qinq-dot1p** *keyword*
  - **policer-control-policy**
    - **policy-name** *string*
  - **sap-ingress**
    - **policy-name** *string*
    - **queuing-type** *keyword*
  - **scheduler-policy**
    - **policy-name** *string*
- **lag**
  - **link-map-profile** *number*
  - **per-link-hash**
    - **class** *number*
    - **weight** *number*
- **monitor-oper-group** *string*
- **multi-service-site** *string*
- **oper-group** *string*
- **static-host**
  - **ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
    - **admin-state** *keyword*
    - **ancp-string** *ancp-string*
    - **int-dest-id** *int-dest-id*
    - **managed-route** *ipv4-unicast-prefix*
    - **rip-policy** *string*
    - **shcv**
    - **sla-profile** *string*
    - **sub-profile** *string*
    - **subscriber-id**
      - **string** *subscriber-id*
      - **use-sap-id**
  - **ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
    - **admin-state** *keyword*
    - **ancp-string** *ancp-string*
    - **int-dest-id** *int-dest-id*
    - **mac-linking** *ipv4-unicast-address*
    - **managed-route** *ipv6-unicast-prefix*
      - **metric** *number*
    - **retail-svc-id** *number*
    - **shcv**
    - **sla-profile** *string*
    - **sub-profile** *string*
    - **subscriber-id**
      - **string** *subscriber-id*
      - **use-sap-id**
  - **mac-learning**
    - **data-triggered** *boolean*
    - **single-mac** *boolean*
- **sub-sla-mgmt**
  - **admin-state** *keyword*
  - **defaults**
    - **int-dest-id**
      - **string** *int-dest-id*
      - **top-q-tag**
    - **sla-profile** *string*

```
            — sub-profile string
            — subscriber-id
                — auto-id
                — sap-id
                — string subscriber-id
        — single-sub-parameters
            — non-sub-traffic
                — sla-profile string
                — sub-profile string
                — subscriber-id subscriber-id
            — profiled-traffic-only boolean
        — sub-ident-policy string
        — subscriber-limit sap-subscriber-limit
    — sap-parameters
        — anti-spoof keyword
        — description string
        — sub-sla-mgmt
            — defaults
                — sla-profile string
                — sub-profile string
                — subscriber-id
                    — auto-id
                    — string subscriber-id
            — sub-ident-policy string
    — shcv-policy string
    — shcv-policy-ipv4 string
    — shcv-policy-ipv6 string
    — srrp number
        — admin-state keyword
        — bfd-liveness
            — dest-ip ipv4-address
            — interface-name interface-name
            — service-name string
        — description string
        — gw-mac mac-unicast-address
        — keep-alive-interval number
        — message-path string
        — monitor-oper-group
            — group-name string
            — priority-step number
        — one-garp-per-sap boolean
        — policy string
        — preempt boolean
        — priority number
        — send-fib-population-packets keyword
    — suppress-aa-sub boolean
    — tos-marking-state keyword
    — type keyword
    — wlan-gw
        — admin-state keyword
        — gateway-address (ipv4-address-no-zone | ipv6-address-no-zone)
            — purpose
                — xconnect boolean
        — gateway-router string
```

- **l2-ap**
  - **access-point** *sap*
    - **admin-state** *keyword*
    - **encap-type** *keyword*
    - **epipe-sap-template** *string*
  - **auto-sub-id-fmt** *keyword*
  - **default-encap-type** *keyword*
- **lanext**
  - **max-bd** *number*
- **learn-ap-mac**
  - **delay-auth** *boolean*
- **mobility**
  - **hold-time** *number*
  - **inter-tunnel-type** *boolean*
  - **inter-vlan** *boolean*
  - **trigger**
    - **control** *boolean*
    - **data** *boolean*
    - **iapp** *boolean*
- **oper-down-on-group-degrade** *boolean*
- **tcp-mss-adjust** *number*
- **tunnel-egress-qos**
  - **admin-state** *keyword*
  - **agg-rate-limit** (*number* | *keyword*)
  - **granularity** *keyword*
  - **hold-time** (*number* | *keyword*)
  - **multi-client-only** *boolean*
  - **qos** *string*
  - **scheduler-policy** *string*
- **tunnel-encaps**
  - **learn-l2tp-cookie** (*keyword* | *string*)
- **vlan-range** *string*
  - **authentication**
    - **hold-time** *number*
    - **on-control-plane** *boolean*
    - **policy** *string*
    - **vlan-mismatch-timeout** *number*
  - **data-triggered-ue-creation**
    - **admin-state** *keyword*
    - **create-proxy-cache-entry**
      - **mac-format** *mac-specification*
      - **proxy-server**
        - **name** *string*
        - **router-instance** *string*
  - **dhcp4**
    - **admin-state** *keyword*
    - **dns** *ipv4-unicast-address*
    - **l2-aware-ip-address** (*string* | *keyword*)
    - **lease-time**
      - **active** *number*
      - **initial** *number*
    - **nbns** *ipv4-unicast-address*
  - **dhcp6**
    - **admin-state** *keyword*

- — **preferred-lifetime**
  - — **active** *number*
  - — **initial** *number*
- — **valid-lifetime**
  - — **active** *number*
  - — **initial** *number*
- — **dsm**
- — **accounting-policy** *string*
- — **accounting-update**
  - — **interval** *number*
- — **admin-state** *keyword*
- — **egress**
  - — **policer** *string*
- — **ingress**
  - — **ip-filter** *string*
  - — **policer** *string*
- — **one-time-redirect**
  - — **port** *number*
  - — **url** *one-time-http-redirect-url*
- — **http-redirect-policy** *string*
- — **idle-timeout-action** *keyword*
- — **l2-service**
- — **admin-state** *keyword*
- — **description** *string*
- — **service** *string*
- — **nat-policy** *string*
- — **retail-service** *service-name*
- — **slaac**
- — **admin-state** *keyword*
- — **preferred-lifetime**
  - — **active** *number*
  - — **initial** *number*
- — **valid-lifetime**
  - — **active** *number*
  - — **initial** *number*
- — **vrgw**
- — **admin-state** *keyword*
- — **brg**
- — **authenticated-brg-only** *boolean*
- — **default-brg-profile** *string*
- — **lanext**
- — **access**
  - — **max-mac** *number*
  - — **multi-access** *boolean*
- — **admin-state** *keyword*
- — **assistive-address-resolution** *boolean*
- — **bd-mac-prefix** *string*
- — **mac-translation** *boolean*
- — **network**
  - — **admin-state** *keyword*
  - — **max-mac** *number*
- — **xconnect**
- — **accounting**
- — **mobility-updates** *boolean*

```
                        — policy string
                        — update-interval number
                    — admin-state keyword
                — wlan-gw-group string
            — wpp
                — admin-state keyword
                — initial
                    — sla-profile string
                    — sub-profile string
                — lease-time number
                — portal
                    — name string
                    — portal-group string
                    — router-instance string
                — restore-to-initial-on-disconnect boolean
                — triggered-hosts boolean
                — user-db string
        — hold-time
            — ipv4
                — down
                    — init-only boolean
                    — seconds number
                — up
                    — seconds number
            — ipv6
                — down
                    — init-only boolean
                    — seconds number
                — up
                    — seconds number
        — ipoe-linking
            — gratuitous-router-advertisement boolean
        — ipoe-session
            — session-limit number
        — ipv4
            — address ipv4-unicast-address
                — gateway ipv4-unicast-address
                — holdup-time number
                — populate-host-routes boolean
                — prefix-length number
                — track-srrp number
            — allow-unmatching-subnets boolean
            — default-dns ipv4-unicast-address
            — dhcp
                — admin-state keyword
                — client-applications
                    — dhcp boolean
                    — ppp boolean
                — description string
                — gi-address ipv4-unicast-address
                — lease-populate
                    — max-leases number
                — option-82
                    — vendor-specific-option
```

```
            — client-mac-address boolean
            — sap-id boolean
            — service-id boolean
            — string string
            — system-id boolean
         — proxy-server
            — admin-state keyword
            — emulated-server ipv4-unicast-address
            — lease-time
               — radius-override boolean
               — value number
         — python-policy string
         — relay-proxy
            — release-update-src-ip boolean
            — siaddr-override ipv4-unicast-address
         — server ipv4-unicast-address
         — src-ip-addr keyword
         — virtual-subnet boolean
      — export-host-routes boolean
      — unnumbered
         — ip-address ipv4-unicast-address
         — ip-int-name interface-name
   — ipv6
      — address ipv6-address
         — holdup-time number
         — host-type keyword
         — prefix-length number
         — track-srrp number
      — allow-multiple-wan-addresses boolean
      — allow-unmatching-prefixes boolean
      — default-dns ipv6-unicast-address
      — delegated-prefix-length (number | keyword)
      — dhcp6
         — override-slaac boolean
         — pd-managed-route
            — next-hop keyword
         — proxy-server
            — admin-state keyword
            — client-applications
               — dhcp boolean
               — ppp boolean
            — preferred-lifetime dhcp6-prefix-lifetime
            — rebind-timer dhcp6-rebind-timer
            — renew-timer dhcp6-renew-timer
            — server-id
               — duid-en-ascii string
               — duid-en-hex string
               — duid-ll
            — valid-lifetime dhcp6-prefix-lifetime
         — python-policy string
         — relay
            — admin-state keyword
            — client-applications
               — dhcp boolean
```

```
                    — ppp boolean
                — description string
                — link-address ipv6-address
                — server ipv6-address-with-zone
                — source-address ipv6-unicast-address
            — ipoe-bridged-mode boolean
            — link-local-address
                — address ipv6-address
            — prefix ipv6-prefix
                — holdup-time number
                — host-type keyword
                — track-srrp number
            — router-advertisements
                — admin-state keyword
                — force-mcast keyword
                — max-advertisement-interval number
                — min-advertisement-interval number
                — options
                    — current-hop-limit number
                    — dns
                        — include-rdnss boolean
                        — rdnss-lifetime (number | keyword)
                    — managed-configuration boolean
                    — mtu (number | keyword)
                    — other-stateful-configuration boolean
                    — reachable-time number
                    — retransmit-timer number
                    — router-lifetime (number | keyword)
                — prefix-options
                    — autonomous boolean
                    — on-link boolean
                    — preferred-lifetime router-advertisement-prefix-options-lifetime
                    — valid-lifetime router-advertisement-prefix-options-lifetime
            — router-solicit
                — inactivity-timer (number | keyword)
        — local-address-assignment
            — admin-state keyword
            — ipv4
                — client-applications
                    — ppp boolean
                — default-pool string
                — server string
            — ipv6
                — client-applications
                    — ipoe-slaac boolean
                    — ipoe-wan boolean
                    — ppp-slaac boolean
                — server string
        — pppoe
            — description string
            — session-limit number
        — private-retail-subnets boolean
        — wan-mode keyword
        — wlan-gw
```

```
        — pool-manager
            — dhcp6-client
                — dhcpv4-nat
                    — admin-state keyword
                    — link-address ipv6-address
                    — pool-name string
                — ia-na
                    — admin-state keyword
                    — link-address ipv6-address
                    — pool-name string
                — lease-query
                    — max-retries number
                — servers ipv6-unicast-address
                — slaac
                    — admin-state keyword
                    — link-address ipv6-address
                    — pool-name string
                — source-ip (keyword | string)
            — watermarks
                — high number
                — low number
            — wlan-gw-group string
        — redundancy
            — admin-state keyword
            — export ipv4-unicast-prefix
            — monitor ipv4-unicast-prefix
    — ttl-propagate
        — local keyword
        — transit keyword
    — twamp-light
        — reflector
            — admin-state keyword
            — description string
            — prefix (ipv4-prefix | ipv6-prefix)
                — description string
            — udp-port number
    — video-interface interface-name
        — accounting-policy string
        — address ipv4-prefix-with-host-bits
        — adi
            — scte30
                — ad-server ipv4-address
                — local-address
                    — control ipv4-unicast-address
                    — data ipv4-unicast-address
        — admin-state keyword
        — channel ipv4-multicast-address source ipv4-unicast-address
            — channel-name string
            — description string
            — scte35-action keyword
            — zone-channel ipv4-multicast-address zone-source ipv4-unicast-address
                — adi-channel-name string
        — cpu-protection string
        — description string
```

- **multicast-service** *number*
- **output-format** *keyword*
- **rt-client**
  - **src-address** *ipv4-unicast-address*
- **video-sap**
  - **egress**
    - **filter**
      - **ip** *string*
    - **qos**
      - **policy-name** *string*
  - **ingress**
    - **filter**
      - **ip** *string*
    - **qos**
      - **policy-name** *string*
  - **video-group-id** *string*
- **vprn-type** *keyword*
- **vrf-export**
  - **policy** *string*
- **vrf-import**
  - **policy** *string*
- **vrf-target**
  - **community** *route-target*
  - **export-community** *route-target*
  - **import-community** *route-target*
- **vxlan**
  - **tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
    - **fpe-id** *string*
- **weighted-ecmp** *boolean*
- **wlan-gw**
  - **distributed-subscriber-mgmt**
    - **ipv6-tcp-mss-adjust** *number*
  - **mobility-triggered-accounting**
    - **admin-state** *keyword*
    - **hold-down** *number*
    - **include-counters** *boolean*
  - **xconnect**
    - **admin-state** *keyword*
    - **tunnel-source-ip** *ipv6-prefix*
    - **wlan-gw-group** *string*
- **wpp**
  - **admin-state** *keyword*
  - **portal** *string*
    - **ack-auth-retry-count** *number*
    - **address** *ipv4-unicast-address*
    - **admin-state** *keyword*
    - **ntf-logout-retry-count** *number*
    - **port-format** *keyword*
    - **retry-interval** *number*
    - **secret** *encrypted-leaf*
    - **version** *number*

35.1 service Command Descriptions

service

Context	**configure**
Description	Enter the service context
Introduced	16.0.R1

customer [customer-name] *customer-name*

Context	**configure service**
Description	Enter the customer context
Introduced	16.0.R1

[customer-name] *customer-name*

Context	**configure service customer** *customer-name*
Description	Customer name for a service
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

contact *string*

Context	**configure service customer** *customer-name*
Description	Service customer contact
String Length	1 to 80
Introduced	16.0.R1

customer-id *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service customer** *customer-name*
Description	Customer ID
Range	1 to 2147483647
Introduced	16.0.R1

description *string*

Context	**configure service customer** *customer-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

multi-service-site [multi-service-site-name] *string*

Context	**configure service customer** *customer-name*
Description	Enter the multi-service-site context
Introduced	16.0.R1

[multi-service-site-name] *string*

Context	**configure service customer** *customer-name* **multi-service-site** *string*
Description	Service customer multi-service site name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

assignment

Context	**configure service customer** *customer-name* **multi-service-site** *string*
Description	Enter the assignment context
Introduced	16.0.R1

card *number*

Context **configure service customer** *customer-name* **multi-service-site** *string* **assignment**

Description Card for this binding.

Range 1 to 20

Introduced 16.0.R1

Notes This element is part of a choice

port *port*

Context **configure service customer** *customer-name* **multi-service-site** *string* **assignment**

Description Port for this binding.

Introduced 16.0.R1

Notes This element is part of a choice

description *string*

Context **configure service customer** *customer-name* **multi-service-site** *string*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

egress

Context **configure service customer** *customer-name* **multi-service-site** *string*

Description Enter the egress context

Introduced 16.0.R1

agg-rate

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress**

Description Enter the agg-rate context

Introduced 16.0.R1

limit-unused-bandwidth *boolean*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **egress agg-rate**
Description	Enable aggregate rate overrun protection
Default	false
Introduced	16.0.R1

queue-frame-based-accounting *boolean*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **egress agg-rate**
Description	Enable frame-based accounting on all policers and queues associated with context
Default	false
Introduced	16.0.R1

rate *number*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **egress agg-rate**
Description	Rate limit
Range	1 to 3200000000
Introduced	16.0.R1

policer-control-policy *string*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **egress**
Description	Policer control policy
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

scheduler-policy

Context	**configure service customer** *customer-name* **multi-service-site** *string* **egress**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R1

scheduler [scheduler-name] *string*

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R1

[scheduler-name] *string*

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string*

Description Multi-service site egress scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string* **rate**

Description Administrative CIR.

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy overrides scheduler** *string* **rate**

Description Administrative PIR.

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service customer** *customer-name* **multi-service-site** *string* **egress scheduler-policy**

Description Specify a scheduler-policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

ingress

Context **configure service customer** *customer-name* **multi-service-site** *string*

Description Enter the ingress context

Introduced 16.0.R1

policer-control-policy *string*

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress**

Description Policer control policy

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

scheduler-policy

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress**

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R1

scheduler [scheduler-name] *string*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides**
Description	Enter the scheduler context
Introduced	16.0.R1

[scheduler-name] *string*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string*
Description	Multi-service site ingress scheduler override policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

parent

Context	**configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string*
Description	Enter the parent context
Introduced	16.0.R1

cir-weight *number*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string* **parent**
Description	Weight that is used by the scheduler until the committed rate for feeding this queue
Range	0 to 100
Introduced	16.0.R1

weight *number*

Context	**configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string* **parent**
Description	Weight to be used by the scheduler for feeding this queue
Range	0 to 100
Introduced	16.0.R1

rate

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string* **rate**

Description Administrative CIR.

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy overrides scheduler** *string* **rate**

Description Administrative PIR.

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service customer** *customer-name* **multi-service-site** *string* **ingress scheduler-policy**

Description Specify a scheduler-policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

phone *string*

Context **configure service customer** *customer-name*

Description Service customer phone information

String Length 1 to 80

Introduced 16.0.R1

epipe [service-name] *service-name*

Context	**configure service**
Description	Enter the epipe context
Introduced	16.0.R1

[service-name] *service-name*

Context	**configure service epipe** *service-name*
Description	Name of the service
String Length	1 to 64
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service epipe** *service-name*
Description	Administrative state of the mirror destination service
Default	disable
Options	enable, disable
Introduced	16.0.R1

bgp [bgp-instance] *number*

Context	**configure service epipe** *service-name*
Description	Enter the bgp context
Introduced	16.0.R1

[bgp-instance] *number*

Context	**configure service epipe** *service-name* **bgp** *number*
Description	BGP instance
Range	1
Introduced	16.0.R1
Notes	This element is part of a list key

pw-template-binding [pw-template-name] *string*

Context	**configure service epipe** *service-name* **bgp** *number*
Description	Enter the pw-template-binding context
Max. Elements	100
Introduced	16.0.R1

[pw-template-name] *string*

Context	**configure service epipe** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	PW template policy name
Reference	configure **service pw-template** *pw-template-name*
Introduced	16.0.R1
Notes	This element is part of a list key

bfd-liveness *boolean*

Context	**configure service epipe** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Enable BFD
Default	false
Introduced	16.0.R1

bfd-template *string*

Context	**configure service epipe** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	BFD template name for PW-Template binding
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

import-rt *route-target*

Context	**configure service epipe** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Import route-target communities
String Length	10 to 28
Max. Elements	5
Introduced	16.0.R1

route-distinguisher (*keyword* | *vpn-route-distinguisher*)

Context **configure service epipe** *service-name* **bgp** *number*

Description High-order 6 bytes that are used as string to compose VSI-ID for use in NLRI

Introduced 16.0.R1

route-target

Context **configure service epipe** *service-name* **bgp** *number*

Description Enter the route-target context

Introduced 16.0.R1

export *route-target*

Context **configure service epipe** *service-name* **bgp** *number* **route-target**

Description Extended community name for default import policy

String Length 10 to 28

Introduced 16.0.R1

import *route-target*

Context **configure service epipe** *service-name* **bgp** *number* **route-target**

Description Extended community name for default import policy

String Length 10 to 28

Introduced 16.0.R1

bgp-evpn

Context **configure service epipe** *service-name*

Description Enter the bgp-evpn context

Introduced 16.0.R1

evi *number*

Context **configure service epipe** *service-name* **bgp-evpn**

Description EVPN ID

Range 1 to 65535

Introduced 16.0.R1

local-ac

Context	**configure service epipe** *service-name* **bgp-evpn**
Description	Enter the local-ac context
Introduced	16.0.R1

eth-tag *number*

Context	**configure service epipe** *service-name* **bgp-evpn local-ac**
Description	Ethernet tag of the attachment circuit
Range	1 to 16777215
Introduced	16.0.R1

name *string*

Context	**configure service epipe** *service-name* **bgp-evpn local-ac**
Description	Attachment circuit name
String Length	1 to 32
Introduced	16.0.R1

mpls [bgp-instance] *number*

Context	**configure service epipe** *service-name* **bgp-evpn**
Description	Enter the mpls context
Introduced	16.0.R1

[bgp-instance] *number*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description	BGP instance
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description	Administrative state of BGP EVPN MPLS
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-bind-tunnel

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description	Enter the auto-bind-tunnel context
Introduced	16.0.R1

enforce-strict-tunnel-tagging *boolean*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel**
Description	Enable/disable enforcement of strict tunnel tagging
Default	false
Introduced	16.0.R4

resolution *keyword*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel**
Description	Resolution method for tunnel selection
Default	none
Options	none, filter, any
Introduced	16.0.R1

resolution-filter

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel**
Description	Enter the resolution-filter context
Introduced	16.0.R1

bgp *boolean*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Set BGP type for auto bind tunnel

Default false

Introduced 16.0.R1

ldp *boolean*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting LDP type for auto-bind-tunnel

Default false

Introduced 16.0.R1

rsvp *boolean*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting RSVP-TE type for auto-bind-tunnel

Default false

Introduced 16.0.R1

sr-isis *boolean*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting SR-ISIS type for auto-bind-tunnel

Default false

Introduced 16.0.R1

sr-ospf *boolean*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Segment Routing (SR) tunnel type programed by an OSPF instance in TTM

Default false

Introduced 16.0.R1

sr-te *boolean*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**
Description	Enable/disable setting SR-TE type for auto-bind-tunnel
Default	false
Introduced	16.0.R1

udp *boolean*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**
Description	Set UDP type for auto-bind-tunnel
Default	false
Introduced	16.0.R1

control-word *boolean*

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description	Enable/disable setting the CW bit in the label message.
Default	false
Introduced	16.0.R1

default-route-tag *one-byte-value*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description	Default route tag to match against export policies: value as 0xXX.
Introduced	16.0.R4

ecmp *number*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description Maximum ECMP routes information
Range 1 to 32
Default 1
Introduced 16.0.R1

endpoint

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description Enter the **endpoint** context
Introduced 16.0.R5

name *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number* **endpoint**
Description Name of endpoint the bgp-evpn mpls instance is associated with
Reference configure **service epipe** *service-name* **endpoint** *string*
Introduced 16.0.R5

entropy-label *boolean*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description Enable/disable use of entropy-label.
Default false
Introduced 16.0.R1

force-vc-forwarding *keyword*

Context **configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description VC forwarding status
Options vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced 16.0.R1

send-tunnel-encap

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number*
Description	Enter the send-tunnel-encap context
Introduced	16.0.R1

mpls *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **send-tunnel-encap**
Description	Enable/disable MPLS encapsulation for this service.
Default	true
Introduced	16.0.R1

mpls-over-udp *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-evpn mpls** *number* **send-tunnel-encap**
Description	Enable/disable MPLS over UDP encapsulation for this service.
Default	false
Introduced	16.0.R1

remote-ac

Context	**configure service epipe** *service-name* **bgp-evpn**
Description	Enter the remote-ac context
Introduced	16.0.R1

eth-tag *number*

Context	**configure service epipe** *service-name* **bgp-evpn remote-ac**
Description	Ethernet tag of the attachment circuit
Range	1 to 16777215
Introduced	16.0.R1

name *string*

Context	**configure service epipe** *service-name* **bgp-evpn remote-ac**
Description	Attachment circuit name
String Length	1 to 32
Introduced	16.0.R1

vxlan [bgp-instance] *number*

Context	**configure service epipe** *service-name* **bgp-evpn**
Description	Enter the vxlan context
Introduced	16.0.R1

[bgp-instance] *number*

Context	**configure service epipe** *service-name* **bgp-evpn vxlan** *number*
Description	BGP instance
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service epipe** *service-name* **bgp-evpn vxlan** *number*
Description	Administrative state of BGP EVPN VXLAN
Default	disable
Options	enable, disable
Introduced	16.0.R1

default-route-tag *one-byte-value*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-evpn vxlan** *number*
Description	Default route tag to match against export policies: value as 0xXX.
Introduced	16.0.R4

ecmp *number*

Context	**configure service epipe** *service-name* **bgp-evpn vxlan** *number*
Description	Maximum ECMP routes information
Range	1 to 32
Default	1
Introduced	16.0.R1

send-tunnel-encap *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-evpn vxlan** *number*
Description	Enable/Disable sending Vxlan Encap.
Default	true
Introduced	16.0.R1

vxlan-instance *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-evpn vxlan** *number*
Description	VXLAN instance
Reference	configure **service epipe** *service-name* **vxlan instance** *number*
Introduced	16.0.R1
Notes	This element is mandatory

bgp-mh-site [site-name] *string*

Context	**configure service epipe** *service-name*
Description	Enter the bgp-mh-site context
Max. Elements	1
Introduced	16.0.R1

[site-name] *string*

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	Name for the specific site
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

activation-timer *number*

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	Time that the local sites are in standby status, waiting for BGP updates
Range	0 to 100
Units	seconds
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	Administrative state of the site
Default	disable
Options	enable, disable
Introduced	16.0.R1

boot-timer *number*

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	Time that system waits after node reboot and before it runs DF election algorithm
Range	0 to 600
Units	seconds
Introduced	16.0.R1

id *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	ID for the site
Range	1 to 65535
Introduced	16.0.R1

min-down-timer *number*

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	Minimum downtime for BGP multi-homing site after transition from up to down
Range	0 to 100
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	Preference value to advertise in the NLRI L2 extended community
Range	1 to 65535
Introduced	16.0.R1

sap *sap*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-mh-site** *string*
Description	SAP to be associated with this site
Introduced	16.0.R1

bgp-vpws

Context	**configure service epipe** *service-name*
Description	Enter the bgp-vpws context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service epipe** *service-name* **bgp-vpws**
Description	Administrative state of the VPWS edge instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

local-ve

Context	**configure service epipe** *service-name* **bgp-vpws**
Description	Enter the local-ve context
Introduced	16.0.R1

id *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-vpws local-ve**
Description	VPWS edge identifier
Range	1 to 65535
Introduced	16.0.R1

name *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **bgp-vpws local-ve**
Description	VPWS edge name
String Length	1 to 32
Introduced	16.0.R1

remote-ve [name] *string*

Context	**configure service epipe** *service-name* **bgp-vpws**
Description	Enter the remote-ve context
Max. Elements	2
Introduced	16.0.R1

[name] *string*

Context	**configure service epipe** *service-name* **bgp-vpws remote-ve** *string*
Description	VPWS edge name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

id *number*

Context	**configure service epipe** *service-name* **bgp-vpws remote-ve** *string*
Description	VPWS edge identifier
Range	1 to 65535
Introduced	16.0.R1

customer *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name*
Description	Service customer ID
Reference	configure **service customer** *customer-name*
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service epipe** *service-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

endpoint [name] *string*

Context	**configure service epipe** *service-name*
Description	Enter the endpoint context
Max. Elements	2
Introduced	16.0.R1

[name] *string*

Context	**configure service epipe** *service-name* **endpoint** *string*
Description	Service endpoint name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure service epipe** *service-name* **endpoint** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

hold-time-active *number*

Context	**configure service epipe** *service-name* **endpoint** *string*
Description	Time to hold the active state before entering standby when a local MC-LAG SAP goes down
Range	1 to 60
Introduced	16.0.R1

revert-time (*number* | *keyword*)

Context **configure service epipe** *service-name* **endpoint** *string*

Description Time to wait before reverting back to the primary spoke-sdp defined on this service endpoint

Default immediate

Introduced 16.0.R1

standby-signaling *keyword*

Context **configure service epipe** *service-name* **endpoint** *string*

Description PW standby bit that is sent to T-LDP peer when spoke-SDPs are selected as standby

Options master, slave

Introduced 16.0.R1

load-balancing

Context **configure service epipe** *service-name*

Description Enter the load-balancing context

Introduced 16.0.R1

per-service-hashing *boolean*

Context **configure service epipe** *service-name* **load-balancing**

Description Service level hashing for Ethernet services

Default false

Introduced 16.0.R1

nat-outside [nat-group] *number*

Context **configure service epipe** *service-name*

Description Enter the nat-outside context

Introduced 16.0.R1

[nat-group] *number*

Context	**configure service epipe** *service-name* **nat-outside** *number*
Description	NAT group
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service epipe** *service-name* **nat-outside** *number*
Description	Administrative state of NAT in this service
Default	disable
Options	enable, disable
Introduced	16.0.R1

oper-group *string*

Context	**configure service epipe** *service-name*
Description	Oper-group name
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

pbb

Context	**configure service epipe** *service-name*
Description	Enter the pbb context
Introduced	16.0.R1

force-qtag-forwarding *boolean*

Context	**configure service epipe** *service-name* **pbb**
Description	Add an IEEE 802.1q tag after the Customer MAC address when the PBB header is built
Default	false
Introduced	16.0.R1

tunnel

Context	**configure service epipe** *service-name* **pbb**
Description	Enter the tunnel context
Introduced	16.0.R1

backbone-dest-mac *mac-unicast-address-no-zero*

Context	**configure service epipe** *service-name* **pbb tunnel**
Description	Backbone Destination MAC address
Introduced	16.0.R1
Notes	This element is part of a choice

backbone-dest-mac-name *string*

Context	**configure service epipe** *service-name* **pbb tunnel**
Description	Name for backbone Destination MAC address
Reference	configure **service pbb mac** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

backbone-vpls-service-name *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **pbb tunnel**
Description	Backbone VPLS service
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory

isid *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **pbb tunnel**
Description	Service instance ID
Range	0 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory

sap [sap-id] *sap*

Context	**configure service epipe** *service-name*
Description	Enter the sap context
Max. Elements	2
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Accounting policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Administrative state of the SAP
Default	enable
Options	enable, disable
Introduced	16.0.R1

bandwidth *number*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	SAP bandwidth
Range	1 to 3200000000
Units	kilobps
Introduced	16.0.R1

cflowd *boolean*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Enable Cflowd collection and analysis on this SAP
Default	false
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Collect accounting statistics
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service epipe** *service-name* **sap** *sap* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service epipe** *service-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service epipe** *service-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service epipe** *service-name* **sap** *sap* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context	**configure service epipe** *service-name* **sap** *sap* **cpu-protection**
Description	CPM protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R4

description *string*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dist-cpu-protection *string*

Context **configure service epipe** *service-name* **sap** *sap*

Description Distributed CPU protection policy for SAP

Reference configure **system security dist-cpu-protection policy** *string*

Introduced 16.0.R1

egress

Context **configure service epipe** *service-name* **sap** *sap*

Description Enter the egress context

Introduced 16.0.R1

agg-rate

Context **configure service epipe** *service-name* **sap** *sap* **egress**

Description Enter the agg-rate context

Introduced 16.0.R1

limit-unused-bandwidth *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **egress agg-rate**

Description Enable aggregate rate overrun protection

Default false

Introduced 16.0.R1

queue-frame-based-accounting *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **egress agg-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress agg-rate**

Description Maximum total rate of all egress queues in kbps.

Range 1 to 3200000000

Introduced 16.0.R1

filter

Context **configure service epipe** *service-name* **sap** *sap* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress filter**

Description MAC filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress filter**

Description MAC filter identifier

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service epipe** *service-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

policer-control-policy

Context **configure service epipe** *service-name* **sap** *sap* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Priority level

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Minimum amount of cumulative buffer space allowed

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

policy-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

qinq-mark-top-only *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos**

Description Mark top Q-tags

Default false

Introduced 16.0.R1

sap-egress

Context **configure service epipe** *service-name* **sap** *sap* **egress qos**

Description Enter the sap-egress context

Introduced 16.0.R1

overrides

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress**

Description Enter the overrides context

Introduced 16.0.R1

hs-secondary-shaper *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	HS Secondary Shaper
String Length	1 to 32
Introduced	16.0.R1

hs-wrr-group [group-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hs-wrr-group context
Introduced	16.0.R4

[group-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	HS WRR group identifier
Reference	configure **qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

hs-class-weight *number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Weight of scheduling class.
Range	1 | 2 | 4 | 8
Introduced	16.0.R1

percent-rate *decimal-number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR percent.
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-queues

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hsmda-queues context
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Packet byte offset for HSMDA queue
Range	-64 to 31
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Egress HSMDA queue ID

Reference configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Buffer space allowed for the queue

Units bytes

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Administrative PIR rate.

Introduced 16.0.R1

slope-policy *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Name of the slope-policy which is used to override the default slope-policy for the named buffer pool.

Reference configure **qos hsmda-slope-policy** *string*

Introduced 16.0.R1

wrr-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Weight value for the HSMDA queue

Range 1 to 32

Introduced 16.0.R1

secondary-shaper *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Secondary shaper for the HSMDA queue
String Length	1 to 32
Introduced	16.0.R1

wrr-policy *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	WRR policy for the HSMDA queue
Reference	configure **qos hsmda-wrr-policy** *string*
Introduced	16.0.R1

policer [policer-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the policer context
Introduced	16.0.R4

[policer-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description CBS

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Size of each packet, handled by the policer, to be modified

Range -64 to 31

Introduced 16.0.R1

percent-rate

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Mode of statistics collected by the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

avg-frame-overhead *decimal-number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Encapsulation overhead, in centipercent, used to translate packet-based rate to frame-based rate and vice versa.

Range 0.00 to 100.00

Introduced 16.0.R1

burst-limit (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Explicit shaping burst size of a queue.

Range 1 to 14000000

Options auto

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobytes

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

hs-class-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Scheduling class weight.

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

hs-wred-queue

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the hs-wred-queue context

Introduced 16.0.R1

policy *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **hs-wred-queue**

Description Name of slope-policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R1

hs-wrr-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Weighted Round Robin (WRR) weight to parent with this queue into the scheduler

Range 1 to 127

Default 1

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Units kilobytes

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Monitor queue depth

Default false

Introduced 16.0.R1

parent

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**

Description CIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**

Description PIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

percent-rate

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**

Description PIR rate

Range 1 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

policy-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress**

Description Policy identifier

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

port-redirect-group

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Policy for port redirect queue group

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Instance of port queue group

Range 1 to 65535

Introduced 16.0.R1

scheduler-policy

Context **configure service epipe** *service-name* **sap** *sap* **egress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R4

scheduler [scheduler-name] *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **egress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

endpoint *string*

Context **configure service epipe** *service-name* **sap** *sap*

Description Name of the endpoint

Reference configure **service epipe** *service-name* **endpoint** *string*

Introduced 16.0.R1

eth-cfm

Context **configure service epipe** *service-name* **sap** *sap*

Description Enter the eth-cfm context

Introduced 16.0.R1

ais *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm**

Description Generate AIS frames for the SAP based on a facility fault.

Default false

Introduced 16.0.R1

collect-lmm-fc-stats

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the ais context

Introduced 16.0.R1

client-meg-level *number*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**

Description Client MEG level for AIS message generation

Range 1 to 7

Max. Elements 7

Introduced 16.0.R1

interface-support *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**

Description Allow generation of AIS PDUs based on the associated endpoint state

Default false

Introduced 16.0.R1

interval *number*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**

Description Transmission interval for AIS messages

Range 1 | 60

Default 1

Units seconds

Introduced 16.0.R1

low-priority-defect *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**

Description Receive period multiplier to time out CSF

Range 0.0 | 2.0 to 30.0

Default 3.5

Introduced 16.0.R1

description *string*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

direction *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Direction the MEP faces

Options down, up

Introduced 16.0.R1

eth-test

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

lbm-svc-act-responder *boolean*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Process service activation streams encapsulated in ETH-CFM request Loopback Message
Default	false
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

mac-address *mac-unicast-address*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

primary-vlan *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MEP provisioned using MA primary VLAN ID
Default	false
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service epipe** *service-name* **sap** *sap* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

ignore-oper-down *boolean*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Enable/disable whether service will ignore when sap is operationally down.
Default	false
Introduced	16.0.R1

ingress

Context **configure service epipe** *service-name* **sap** *sap*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service epipe** *service-name* **sap** *sap* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress filter**

Description MAC filter identifier

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service epipe** *service-name* **sap** *sap* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policer-control-policy

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Priority level

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Minimum amount of cumulative buffer space allowed

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

policy-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

sap-ingress

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos**

Description Enter the sap-ingress context

Introduced 16.0.R1

fp-redirect-group

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**

Description Forwarding-plane queue group policy

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**
Description	Queue group instance
Range	1 to 65535
Introduced	16.0.R1

overrides

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress**
Description	Enter the overrides context
Introduced	16.0.R4

policer [policer-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides**
Description	Enter the policer context
Introduced	16.0.R4

[policer-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	CBS
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Size of each packet, handled by the policer, to be modified

Range -32 to 31

Introduced 16.0.R1

percent-rate

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**

Description CIR percent rate

Range 0.00 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

pir *decimal-number*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Mode of statistics collected by the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobps

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Monitor queue depth

Default false

Introduced 16.0.R1

parent

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**

Description CIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**

Description PIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

percent-rate

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**

Description CIR percent rate

Range 0.00 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

pir *decimal-number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**

Description PIR percent rate

Range 0.01 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

rate

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the **rate** context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**

Description CIR rate

Range 0 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

pir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**

Description PIR rate

Range 1 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

policy-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress**

Description Policy identifier

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R1

queuing-type *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos sap-ingress**

Description Ingress queuing type

Options shared, multipoint-shared

Introduced 16.0.R4

scheduler-policy

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy**
Description	Enter the overrides context
Introduced	16.0.R4

scheduler [scheduler-name] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides**
Description	Enter the scheduler context
Introduced	16.0.R4

[scheduler-name] *string*

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*
Description	Scheduler override policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

parent

Context	**configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*
Description	Enter the parent context
Introduced	16.0.R1

cir-weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

qtag-manipulation

Context **configure service epipe** *service-name* **sap** *sap* **ingress**

Description Enter the qtag-manipulation context

Introduced 16.0.R1

c-tag *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qtag-manipulation**

Description Inner ingress VLAN translation for two service delimiting VLAN values

Range 0 to 4094

Introduced 16.0.R1

Notes This element is part of a choice

push-dot1q-vlan (*number* | *keyword*)

Context **configure service epipe** *service-name* **sap** *sap* **ingress qtag-manipulation**

Description VLAN translation information

Introduced 16.0.R1

Notes This element is part of a choice

s-tag *number*

Context **configure service epipe** *service-name* **sap** *sap* **ingress qtag-manipulation**

Description Outer ingress VLN translation for two service delimiting VLAN values

Range 0 to 4094

Introduced 16.0.R1

Notes This element is part of a choice

l2tpv3-session

Context **configure service epipe** *service-name* **sap** *sap*

Description Enter the l2tpv3-session context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service epipe** *service-name* **sap** *sap* **l2tpv3-session**

Description Adminstrative state of the entry.

Default disable

Options enable, disable

Introduced 16.0.R1

pseudo-wire

Context **configure service epipe** *service-name* **sap** *sap* **l2tpv3-session**

Description Enter the pseudo-wire context

Introduced 16.0.R1

ethernet



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service epipe** *service-name* **sap** *sap* **l2tpv3-session pseudo-wire**

Description Ethernet type.

Introduced 16.0.R1

Notes This element is part of a choice

ethernet-vlan-id *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **sap** *sap* **l2tpv3-session pseudo-wire**
Description	Ethernet VLAN identifier.
Range	0 to 4095
Introduced	16.0.R1
Notes	This element is part of a choice

router

Context	**configure service epipe** *service-name* **sap** *sap* **l2tpv3-session**
Description	Enter the router context
Introduced	16.0.R1

group *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **sap** *sap* **l2tpv3-session router**
Description	Tunnel group name.
String Length	1 to 32
Introduced	16.0.R1

router-instance *router-instance-base-vprn-loose*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **sap** *sap* **l2tpv3-session router**
Description	Router instance hosting the l2tpv3 session.
String Length	1 to 64
Introduced	16.0.R1

vc-id *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **sap** *sap* **l2tpv3-session**
Description	VC identifier.
Range	1 to 4294967295
Introduced	16.0.R1

lag

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Enter the lag context
Introduced	16.0.R1

link-map-profile *number*

Context	**configure service epipe** *service-name* **sap** *sap* **lag**
Description	Configure LAG link map profile.
Range	1 to 64
Introduced	16.0.R1

per-link-hash

Context	**configure service epipe** *service-name* **sap** *sap* **lag**
Description	Enter the per-link-hash context
Introduced	16.0.R1

class *number*

Context	**configure service epipe** *service-name* **sap** *sap* **lag per-link-hash**
Description	Class used on LAG egress when using weighted per-link-hash
Range	1 to 3
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure service epipe** *service-name* **sap** *sap* **lag per-link-hash**
Description	Weight used on LAG egress when using weighted per-link-hash
Range	1 to 1024
Default	1
Introduced	16.0.R1

mc-ring

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Enter the mc-ring context
Introduced	16.0.R1

ring-node *string*

Context	**configure service epipe** *service-name* **sap** *sap* **mc-ring**
Description	Name for the ring node associated with this SAP
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

monitor-oper-group *string*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Monitor operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

multi-service-site *string*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Multi service site name
String Length	1 to 32
Introduced	16.0.R1

oper-group *string*

Context	**configure service epipe** *service-name* **sap** *sap*
Description	Operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

service-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name*
Description	Unique service ID; cannot be used by any other service, regardless of service type
Range	1 to 2147483647
Introduced	16.0.R1

service-mtu *number*

Context	**configure service epipe** *service-name*
Description	MTU size
Range	1 to 9194
Default	1514
Introduced	16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service epipe** *service-name*
Description	Enter the spoke-sdp context
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Policy to collect accounting statistics
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

bandwidth (*number* | *keyword*)

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Bandwidth that is reserved for this SDP binding
Default	0
Introduced	16.0.R1

bfd-liveness

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

encap *keyword*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **bfd-liveness**

Description BFD encapsulation used on this SDP binding

Default ipv4

Options ipv4

Introduced 16.0.R1

bfd-template *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description BFD template associated with SDP binding

Reference configure **bfd bfd-template** *string*

Introduced 16.0.R1

collect-stats *boolean*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description Allow agent to collect accounting statistics

Default false

Introduced 16.0.R1

control-word *boolean*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description Use the control word as preferred

Default false

Introduced 16.0.R1

cpu-protection

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enter the cpu-protection context

Introduced 16.0.R1

eth-cfm-monitoring

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	CPM protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

egress

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress filter**
Description MAC filter ID
Reference configure **filter mac-filter** *filter-name*
Introduced 16.0.R1

l2tpv3

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress**
Description Enter the l2tpv3 context
Introduced 16.0.R1

cookie *cookie-value*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress l2tpv3**
Description Cookie parameters
String Length 18 to 23
Introduced 16.0.R1

qos

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress**
Description Enter the qos context
Introduced 16.0.R1

network

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos**
Description Enter the network context
Introduced 16.0.R1

policy-name *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network**
Description Egress network policy name applied to this SDP binding
Reference configure **qos network** *network-policy-name*
Introduced 16.0.R1

port-redirect-group

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**

Description Policy for port queue group for this SDP binding

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**

Description Instance of the port egress Queue Group for this SDP binding.

Range 1 to 65535

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Static MPLS VC label that is used to send packets to the far end device through this SDP

Range 16 to 1048575

Introduced 16.0.R1

endpoint

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enter the endpoint context

Introduced 16.0.R1

icb *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Bind SDP as type Inter-Chassis Backup (ICB)
Default	false
Introduced	16.0.R1

name *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Name of endpoint to which this SDP bind is attached
Reference	configure **service epipe** *service-name* **endpoint** *string*
Introduced	16.0.R1

precedence (*number* | *keyword*)

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Precedence of this SDP bind when there are multiple SDP binds attached to one service endpoint
Default	4
Introduced	16.0.R1

entropy-label

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Whether the use of entropy-label is enabled or not.
Introduced	16.0.R1
Notes	This element is part of a choice

eth-cfm

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the eth-cfm context
Introduced	16.0.R1

collect-lmm-fc-stats

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the ais context
Introduced	16.0.R1

client-meg-level *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Client MEG level for AIS message generation
Range	1 to 7
Max. Elements	7
Introduced	16.0.R1

interface-support *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Allow generation of AIS PDUs based on the associated endpoint state
Default	false
Introduced	16.0.R1

interval *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Transmission interval for AIS messages
Range	1 | 60
Default	1
Units	seconds
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the csf context
Introduced	16.0.R1

multiplier *decimal-number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

direction *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Direction the MEP faces
Options	down, up
Introduced	16.0.R1

eth-test

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-test context
Introduced	16.0.R1

bit-error-threshold *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Lowest priority defect threshold for the bit error trap to generate a fault alarm
Range	0 to 11840
Default	1
Units	bit errors
Introduced	16.0.R1

test-pattern

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Enter the test-pattern context
Introduced	16.0.R1

crc-tlv *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**
Description	Generate a CRC checksum
Default	false
Introduced	16.0.R1

pattern *keyword*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

lbm-svc-act-responder *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Process service activation streams encapsulated in ETH-CFM request Loopback Message
Default	false
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

mac-address *mac-unicast-address*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

primary-vlan *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MEP provisioned using MA primary VLAN ID
Default	false
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

force-vc-forwarding *keyword*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	VC forwarding status
Options	vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced	16.0.R1

hash-label

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the **hash-label** context
Introduced	16.0.R1

signal-capability

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **hash-label**
Description	To signal the hash label capability to the remote PE.
Introduced	16.0.R1
Notes	This element is part of a choice

ingress

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the ingress context
Introduced	16.0.R1

filter

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Enter the filter context
Introduced	16.0.R1

ip *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress filter**
Description	IP filter ID
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

ipv6 *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress filter**
Description	IPv6 filter identifier
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R1

mac *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description MAC filter ID

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

l2tpv3

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the l2tpv3 context

Introduced 16.0.R1

cookie

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress l2tpv3**

Description Enter the cookie context

Introduced 16.0.R1

cookie1 *cookie-value*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress l2tpv3 cookie**

Description Value of cookie-1 for the tunnel

String Length 18 to 23

Introduced 16.0.R1

cookie2 *cookie-value*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress l2tpv3 cookie**

Description Value of cookie-1 for the tunnel

String Length 18 to 23

Introduced 16.0.R1

qos

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**

Description Forwarding-plane queue group policy for this SDP binding

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**

Description Instance of the forwarding-plane ingress Queue Group for this SDP binding

Range 1 to 65535

Introduced 16.0.R1

policy-name *string*

Context **configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**

Description Ingress network policy name applied to this SDP binding

Reference configure **qos network** *network-policy-name*

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	1 to 1048575
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Operational group identifier that affect the state of this SDP bind
Reference	configure **service oper-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

oper-group *string*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Operational group identifier
Reference	configure **service oper-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

pw-status

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the pw-status context
Introduced	16.0.R1

block-on-peer-fault *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **pw-status**
Description	Block the user traffic on this SDP bind when peer PW status has fault bits set
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

signaling *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **pw-status**
Description	Allow SDP binding to support pseudowire status signaling
Default	true
Introduced	16.0.R1

standby-signaling-slave *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **pw-status**
Description	Block spoke transmission when the spoke receives standby status notification from peer
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

source-bmac

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the source-bmac context
Introduced	16.0.R1

use-sdp-bmac-lsb *boolean*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id* **source-bmac**
Description	Allow the spoke SDP to be part of a redundant pseudo-wire within PBB Epipe service
Default	false
Introduced	16.0.R1

vc-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Type of virtual circuit (VC) associated with the SDP binding
Default	ether
Options	ether, vlan
Introduced	16.0.R1

vlan-vc-tag *number*

Context	**configure service epipe** *service-name* **spoke-sdp** *sdp-bind-id*
Description	SDP bind VC tag
Range	0 to 4094
Introduced	16.0.R1

test *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name*
Description	Designate as a test service
Default	false
Introduced	16.0.R1

vc-switching *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name*
Description	PW switching signaling to be used by the spokes in the service
Default	false
Introduced	16.0.R1

vpn-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name*
Description	VPN identifier for the service
Range	1 to 2147483647
Introduced	16.0.R1

vxlan

Context	**configure service epipe** *service-name*
Description	Enter the vxlan context
Introduced	16.0.R1

instance [vxlan-instance] *number*

Context	**configure service epipe** *service-name* **vxlan**
Description	Enter the instance context
Max. Elements	1
Introduced	16.0.R1

[vxlan-instance] *number*

Context	**configure service epipe** *service-name* **vxlan instance** *number*
Description	VXLAN instance
Range	1
Default	1
Introduced	16.0.R1
Notes	This element is part of a list key

egress-vtep

Context	**configure service epipe** *service-name* **vxlan instance** *number*
Description	Enter the egress-vtep context
Introduced	16.0.R1

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service epipe** *service-name* **vxlan instance** *number* **egress-vtep**
Description	VXLAN egress VTEP address
Introduced	16.0.R1

oper-group *string*

Context	**configure service epipe** *service-name* **vxlan instance** *number* **egress-vtep**
Description	Operational group associated with egress VTEP address
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

vni *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service epipe** *service-name* **vxlan instance** *number*
Description	VNI of the VXLAN
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory

source-vtep (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service epipe** *service-name* **vxlan**
Description	Vxlan source virtual tunnel endpoint information
Introduced	16.0.R4

ies [service-name] *service-name*

Context	**configure service**
Description	Enter the ies context
Introduced	16.0.R1

[service-name] *service-name*

Context	**configure service ies** *service-name*
Description	Name of the service
String Length	1 to 64
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name*
Description	Administrative state of the mirror destination service
Default	disable
Options	enable, disable
Introduced	16.0.R1

customer *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name*
Description	Service customer ID
Reference	configure **service customer** *customer-name*
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service ies** *service-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

igmp-host-tracking

Context	**configure service ies** *service-name*
Description	Enter the igmp-host-tracking context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **igmp-host-tracking**
Description	Administrative state of IGMP host tracking
Default	disable
Options	enable, disable
Introduced	16.0.R1

expiry-time *number*

Context	**configure service ies** *service-name* **igmp-host-tracking**
Description	Time during which the system continues to track inactive hosts
Range	1 to 65535
Default	260
Units	seconds
Introduced	16.0.R1

interface [interface-name] *interface-name*

Context	**configure service ies** *service-name*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Name of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

cflowd-parameters

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the cflowd-parameters context
Introduced	16.0.R1

sampling [sampling-type] *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **cflowd-parameters**
Description	Enter the sampling context
Introduced	16.0.R1

[sampling-type] *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	Cflowd sampling type for virtual router interface
Options	unicast, multicast
Introduced	16.0.R5
Notes	This element is part of a list key

direction *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The direction of the Cflowd analysis that is applied to the given interface.
Default	ingress-only
Options	ingress-only, egress-only, both
Introduced	16.0.R4

type *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The type of Cflowd analysis that is applied to the given interface.
Options	acl, interface
Introduced	16.0.R4
Notes	This element is mandatory

cpu-protection *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	CPU protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

hold-time

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the hold-time context
Introduced	16.0.R1

ipv4

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time**
Description	Enter the ipv4 context
Introduced	16.0.R1

down

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time ipv4**
Description	Enter the down context
Introduced	16.0.R1

init-only *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time ipv4 down**
Description	Apply down delay only when interface is configured or after reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time ipv4 down**
Description	Down hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time ipv4**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time ipv4 up**
Description	Up hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

ipv6

Context **configure service ies** *service-name* **interface** *interface-name* **hold-time**

Description Enter the ipv6 context

Introduced 16.0.R1

down

Context **configure service ies** *service-name* **interface** *interface-name* **hold-time ipv6**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **hold-time ipv6 down**

Description Apply hold time only when IP interface is first configured or after system reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **interface** *interface-name* **hold-time ipv6 down**

Description Down hold time for the IPv6 interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

up

Context **configure service ies** *service-name* **interface** *interface-name* **hold-time ipv6**

Description Enter the up context

Introduced 16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **hold-time ipv6 up**
Description	Up hold time for the IPv6 interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

if-attribute

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the if-attribute context
Introduced	16.0.R1

admin-group *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **if-attribute**
Description	Name of the Admin group membership of the interface
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

srlg-group [name] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **if-attribute**
Description	Enter the srlg-group context
Introduced	16.0.R1

[name] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **if-attribute srlg-group** *string*
Description	Shared Risk Link Group (SRLG) name.
Reference	configure **routing-options if-attribute srlg-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

ingress-stats *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Collect ingress statistics
Default	false
Introduced	16.0.R1

ip-mtu *number*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Interface IP MTU
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

ipv4

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

addresses

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the addresses context
Introduced	16.0.R1

address [ipv4-address] *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 addresses**
Description	Enter the address context
Introduced	16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 addresses address** *ipv4-unicast-address*
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

prefix-length *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 addresses address** *ipv4-unicast-address*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

allow-directed-broadcasts *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Forward directed broadcasts
Default	false
Introduced	16.0.R1

bfd

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD transmit interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 bfd**

Description BFD session termination

Default auto

Options cpm-np, auto

Introduced 16.0.R1

dhcp

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4**

Description Enter the dhcp context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Administratively enable/disable DHCP.

Default disable

Options enable, disable

Introduced 16.0.R4

description *string*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Add/remove a text description for DHCP.

String Length 1 to 80

Introduced 16.0.R4

gi-address *ipv4-unicast-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Configure the gateway interface address for the DHCP relay.

Introduced 16.0.R4

lease-populate

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

max-leases *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp lease-populate**

Description The maximum number of DHCPv4 leases.

Range 0 to 511999

Default 0

Introduced 16.0.R4

option-82

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the option-82 context

Introduced 16.0.R4

action *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**

Description What to do with DHCP option 82.

Default keep

Options replace, drop, keep

Introduced 16.0.R4

circuit-id

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the circuit-id context

Introduced 16.0.R4

ascii-tuple

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

ifindex

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ifindex in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Do not include the circuit-id.

Introduced 16.0.R4

Notes This element is part of a choice

sap-id

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use SAP ID in the option.

Introduced 16.0.R4

Notes This element is part of a choice

vlan-ascii-tuple

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use vlan-ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

remote-id

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**
Description	Enter the remote-id context
Introduced	16.0.R4

ascii-string *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**
Description	Use user-defined ASCII string in the option.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

mac

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**
Description	Use MAC address in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

none

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**
Description	Do not include the remote-id.
Introduced	16.0.R4
Notes	This element is part of a choice

vendor-specific-option

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**
Description	Enter the vendor-specific-option context
Introduced	16.0.R4

client-mac-address *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

pool-name *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the pool name in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the proxy-server context

Introduced 16.0.R4

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server**

Description Administratively enable/disable DHCP proxy.

Default disable

Options enable, disable

Introduced 16.0.R1

emulated-server *ipv4-unicast-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server**

Description The address used as source and siaddr when emulating a DHCP server.

Introduced 16.0.R1

lease-time

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server**

Description Enter the lease-time context

Introduced 16.0.R1

radius-override *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	Use lease time information provided by RADIUS server
Default	false
Introduced	16.0.R1

value *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	DHCP lease time
Range	300 to 315446399
Units	seconds
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Python policy.
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

relay-plain-bootp *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable relaying of plain BOOTP packets.
Default	false
Introduced	16.0.R4

relay-proxy

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Enter the relay-proxy context
Introduced	16.0.R1

release-update-src-ip *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify whether or not to relay release messages.
Default	false
Introduced	16.0.R4

siaddr-override *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify the IP address to use.
Introduced	16.0.R4

server *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

trusted *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable relaying of untrusted packets.
Default	false
Introduced	16.0.R4

use-arp *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable the use of ARP to determine the destination Hw address.
Default	false
Introduced	16.0.R4

icmp

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the icmp context
Introduced	16.0.R1

mask-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Allow responses to ICMP mask requests
Default	true
Introduced	16.0.R1

param-problem

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Enter the param-problem context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp param-problem**
Description	Administrative state of sending parameter-problem messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp param-problem**
Description Number of parameter-problem ICMP messages to send in specified time interval
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp param-problem**
Description Time used to limit number of parameter-problem ICMP messages issued
Range 1 to 60
Default 10
Units seconds
Introduced 16.0.R1

redirects

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp**
Description Enter the redirects context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp redirects**
Description Administrative state of sending ICMP redirects
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp redirects**
Description Maximum number of ICMP redirect messages to send
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp redirects**
Description	Time to limit the number of ICMP redirect messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ttl-expired

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Enter the ttl-expired context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Administrative state of sending TTL expired messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Maximum number of TTL expired messages to send
Range	10 to 2000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Time to limit the number of ICMP TTL expired messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

unreachables

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Enter the unreachables context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp unreachables**
Description	Administrative state of sending unreachable messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp unreachables**
Description	Maximum number of unreachable messages to send
Range	10 to 2000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 icmp unreachables**
Description	Time to limit the number of unreachable messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ip-helper-address *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Gateway address
Introduced	16.0.R1

local-dhcp-server *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	DHCP server for the interface
Reference	configure **router** *string* **dhcp-server dhcpv4** *string*
Introduced	16.0.R1

neighbor-discovery

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the neighbor-discovery context
Introduced	16.0.R1

learn-unsolicited *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow ARP application to learn new entries based on any received ARP message
Default	false
Introduced	16.0.R1

limit

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Log warning messages at threshold or when limit is exceeded, however entries are learned above limit
Default	false
Introduced	16.0.R1

max-entries *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Maximum number of entries that can be learned on an IP interface
Range	0 to 524288
Introduced	16.0.R1

threshold *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Threshold value that triggers a warning message to be sent
Range	1 to 100
Default	90
Units	percent
Introduced	16.0.R1

local-proxy-arp *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable local proxy ARP on interface
Default	false
Introduced	16.0.R1

populate *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow static and dynamic hosts to be populated in system ARP cache
Default	false
Introduced	16.0.R1

populate-host *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow addition or deletion of host routes in route table derived from ARP entries in ARP cache
Default	false
Introduced	16.0.R1

proactive-refresh *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Send a single refresh message with no retries 30 seconds prior to entry timeout
Default	false
Introduced	16.0.R1

proxy-arp-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Proxy ARP policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

remote-proxy-arp *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable remote proxy ARP on interface
Default	false
Introduced	16.0.R1

retry-timer *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP retry interval
Range	1 to 300
Default	50
Units	deciseconds
Introduced	16.0.R1

route-tag *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP route tag
Range	1 to 255
Introduced	16.0.R1

static-neighbor [ipv4-address] *ipv4-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor context
Introduced	16.0.R1

[ipv4-address] *ipv4-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	IPv4 address corresponding to the media-dependent physical address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-address *mac-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

static-neighbor-unnumbered

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor-unnumbered context
Introduced	16.0.R1

mac-address *mac-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor-unnumbered**
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

timeout *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Timeout for an ARP entry learned on the interface
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

primary

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the primary context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is mandatory

broadcast *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 primary**
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

prefix-length *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 primary**
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

qos-route-lookup *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	QoS Route lookup
Options	destination, source
Introduced	16.0.R1

secondary [address] *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the secondary context
Introduced	16.0.R1

[address] *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

broadcast *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

igp-inhibit *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Secondary IP address that is not recognized as local interface by the running IGP
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

tcp-mss *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	TCP maximum segment size for the interface
Range	384 to 9158
Introduced	16.0.R1

unnumbered

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the unnumbered context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 unnumbered**
Description	IP address of the interface
Introduced	16.0.R1
Notes	This element is part of a choice

ip-int-name *interface-name*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 unnumbered**
Description	Name of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

system

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 unnumbered**

Description IP interface as an unnumbered interface

Introduced 16.0.R1

Notes This element is part of a choice

urpf-check

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4**

Description Enter the urpf-check context

Introduced 16.0.R1

ignore-default *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 urpf-check**

Description Ignore default route when performing a uRPF check

Default false

Introduced 16.0.R1

mode *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4 urpf-check**

Description Unicast RPF check mode

Default strict

Options strict, loose, strict-no-ecmp

Introduced 16.0.R1

vrrp [virtual-router-id] *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv4**

Description Enter the vrrp context

Introduced 16.0.R1

[virtual-router-id] *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Virtual Router Identifier (VRID) for the VRRP virtual router instance
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Administrative state of VRRP
Default	enable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

authentication-key *encrypted-leaf*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Password for simple text authentication
String Length	1 to 38
Introduced	16.0.R1

backup *ipv4-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Virtual router IP addresses for the interface
Max. Elements	16
Introduced	16.0.R1

bfd-liveness

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv4-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Destination IP address to be used for BFD session
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

init-delay *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	VRRP initialization delay timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	MAC address used by virtual router instance overriding the VRRP default derived from the VRID
Introduced	16.0.R1

master-int-inherit *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the master instance to dictate the master down timer
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

message-interval *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Interval for sending VRRP Advertisement messages
Range	1 to 2559
Default	10
Units	deciseconds
Introduced	16.0.R1

oper-group *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Operational group name associated with VRRP
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

owner

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Designate virtual router instance as owning the virutal router IP addresses
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Suppress the transmission and reception of VRRP advertisement messages
Default	false
Introduced	16.0.R1

ping-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to ICMP echo requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	VRRP priority control policy associated with the virtual router instance
Reference	configure **vrrp policy** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

preempt *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the VRRP to override an existing non-owner master
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

priority *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Base priority for the VRRP
Range	1 to 255
Introduced	16.0.R1

ssh-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to SSH requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

standby-forwarding *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the forwarding of packets by a standby router
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

telnet-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to Telnet requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

traceroute-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to traceroute requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the ipv6 context
Introduced	16.0.R1

address [ipv6-address] *ipv6-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the address context
Introduced	16.0.R1

[ipv6-address] *ipv6-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

duplicate-address-detection *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Enable/disable Duplicate Address Detection.
Default	true
Introduced	16.0.R1

eui-64 *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Form complete IPv6 address from supplied prefix and 64-bit interface identifier
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address prefix length
Range	0 to 128
Introduced	16.0.R1
Notes	This element is mandatory

primary-preference *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Order to enforce in which the address is used from control plane protocols and applications
Range	1 to 4294967295
Introduced	16.0.R1

track-srrp *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

bfd

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 bfd**
Description BFD transmit interval over this interface
Range 10 to 100000
Default 100
Units milliseconds
Introduced 16.0.R1

type *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 bfd**
Description BFD session termination
Default auto
Options cpm-np, auto
Introduced 16.0.R1

dhcp6

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description Enter the dhcp6 context
Introduced 16.0.R1

relay

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6**
Description Enter the relay context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description Administrative state of DHCPv6 relay
Default disable
Options enable, disable
Introduced 16.0.R1

description *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

lease-populate

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Enter the lease-populate context
Introduced	16.0.R1

max-nbr-of-leases *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate**
Description	Maximum number of lease states allocated by the DHCPv6 relay function, allowed on interface
Range	0 to 32767
Default	0
Introduced	16.0.R1

route-populate

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate**
Description	Enter the route-populate context
Introduced	16.0.R1

na *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate**
Description	Create route based on IA_NA prefix option in relay-reply message
Default	false
Introduced	16.0.R1

pd

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate**

Description Enter the pd context

Introduced 16.0.R1

exclude *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate pd**

Description Create back hole route based on prefix exclude option in relay-reply message

Default false

Introduced 16.0.R1

ta *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate**

Description Create route based on IA_TA prefix option in relay-reply message

Default false

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**

Description Link address of the DHCPv6 relay messages

Introduced 16.0.R1

neighbor-resolution *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**

Description Enable neighbor resolution via DHCPv6 relay

Default false

Introduced 16.0.R1

option

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Enter the option context
Introduced	16.0.R1

interface-id

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option**
Description	Enter the interface-id context
Introduced	16.0.R1

ascii-tuple

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**
Description	Use ASCII-encoded concatenated tuple in interface ID option in DHCPv6 relay packet
Introduced	16.0.R1
Notes	This element is part of a choice

if-index

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**
Description	Use interface index in interface ID option in DHCPv6 relay packet
Introduced	16.0.R1
Notes	This element is part of a choice

sap-id

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**
Description	Use SAP ID in interface ID option in DHCPv6 relay packet
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**
Description	String for interface ID option in DHCPv6 relay packet
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option**
Description	Allow remote ID option to be sent in the DHCPv6 relay packet
Default	false
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Python policy name
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

server *ipv6-address-with-zone*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	DHCPv6 server to which the DHCPv6 requests are forwarded
Max. Elements	8
Introduced	16.0.R1
Notes	This element is ordered by user

source-address *ipv6-unicast-or-linklocal-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Source IPv6 address of the DHCPv6 relay messages
Introduced	16.0.R1

user-db *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Local user database for authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

server

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6**
Description	Enter the server context
Introduced	16.0.R1

max-nbr-of-leases *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server**
Description	DHCPv6 leases allowed
Range	0 to 8000
Default	8000
Introduced	16.0.R1

prefix-delegation

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server**
Description	Enter the prefix-delegation context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation**
Description	Administrative state of the prefix delegation
Default	disable
Options	enable, disable
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation**
Description	Enter the prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*
Description	IPv6 prefix to be delegated
Introduced	16.0.R1
Notes	This element is part of a list key

client-id

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*
Description	Enter the client-id context
Introduced	16.0.R1

duid *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix* **client-id**
Description	Requesting router ID
String Length	1 to 130
Introduced	16.0.R1

iaid *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix* **client-id**
Description	IAID from the requesting router that matches to delegate the prefix
Range	1 to 4294967295
Introduced	16.0.R1

preferred-lifetime (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*
Description	IPv6 prefix/mask preferred life time
Default	604800
Units	seconds
Introduced	16.0.R1

valid-lifetime (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*
Description	IPv6 prefix/mask valid life time
Default	2592000
Units	seconds
Introduced	16.0.R1

duplicate-address-detection *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enable/disable Duplicate Address Detection
Default	true
Introduced	16.0.R1

icmp6

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the icmp6 context
Introduced	16.0.R1

packet-too-big

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description	Enter the packet-too-big context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 packet-too-big**
Description Administrative state of packet-too-big messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 packet-too-big**
Description Number of packet-too-big messages
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 packet-too-big**
Description Time to limit packet-too-big messages
Range 1 to 60
Default 10
Introduced 16.0.R1

param-problem

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description Enter the param-problem context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 param-problem**
Description Administrative state of param-problem messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 param-problem**
Description Number of parameter-problem messages
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 param-problem**
Description Time to limit parameter problem messages
Range 1 to 60
Default 10
Introduced 16.0.R1

redirects

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description Enter the redirects context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 redirects**
Description Administrative state of the redirect messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 redirects**
Description Number of redirect messages
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 redirects**
Description Time to limit redirect messages
Range 1 to 60
Default 10
Introduced 16.0.R1

time-exceeded

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description Enter the time-exceeded context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 time-exceeded**
Description Administrative state of the time-exceeded messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 time-exceeded**
Description Number of time-exceeded messages
Range 10 to 2000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 time-exceeded**
Description Time to limit time-exceeded messages
Range 1 to 60
Default 10
Introduced 16.0.R1

unreachables

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description	Enter the unreachables context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 unreachables**
Description	Administrative state of the unreachable messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 unreachables**
Description	Number of unreachable messages
Range	10 to 2000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 icmp6 unreachables**
Description	Time to limit unreachable messages
Range	1 to 60
Default	10
Introduced	16.0.R1

link-local-address

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the link-local-address context
Introduced	16.0.R1

address *ipv6-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 link-local-address**

Description Link-local IPv6 address of this router interface

Introduced 16.0.R1

duplicate-address-detection *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 link-local-address**

Description Enable/disable Duplicate Address Detection.

Default true

Introduced 16.0.R1

local-dhcp-server *string*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6**

Description DHCP server for the interface

Reference configure **router** *string* **dhcp-server dhcpv6** *string*

Introduced 16.0.R1

neighbor-discovery

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

learn-unsolicited *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**

Description Type of entries learned from unsolicited NA messages

Options global, link-local, both

Introduced 16.0.R1

limit

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Log warning messages at threshold or when limit is exceeded, however entries are learned above limit
Default	false
Introduced	16.0.R1

max-entries *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Maximum number of entries that can be learned on an IP interface
Range	0 to 102400
Introduced	16.0.R1

threshold *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Threshold value that triggers a warning message to be sent
Range	1 to 100
Default	90
Units	percent
Introduced	16.0.R1

local-proxy-nd *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enable neighbor discovery on interface
Default	false
Introduced	16.0.R1

populate-host *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Allow addition or deletion of host routes in route table derived from ARP entries in ARP cache
Default	false
Introduced	16.0.R1

proactive-refresh *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Neighbor entries to be refreshed proactively
Options	global, link-local, both
Introduced	16.0.R1

proxy-nd-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Name of the proxy Neighbor Discovery policies for the interface
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

reachable-time *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Timer for neighbor reachability detection
Range	30 to 3600
Introduced	16.0.R1

route-tag *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	ARP route tag
Range	1 to 255
Introduced	16.0.R1

secure-nd

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the secure-nd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Administrative state of secure neighbor discovery
Default	disable
Options	enable, disable
Introduced	16.0.R1

allow-unsecured-msgs *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Accept unsecured messages
Default	true
Introduced	16.0.R1

public-key-min-bits *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Minimum acceptable key length for public keys
Range	512 to 1024
Default	1024
Introduced	16.0.R1

security-parameter *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**

Description Security parameter in the generation of a cryptographical address

Range 0 to 1

Default 1

Introduced 16.0.R1

stale-time *number*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**

Description Time during which a neighbor discovery cache entry remains stale

Range 60 to 65535

Introduced 16.0.R1

static-neighbor [ipv6-address] *ipv6-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**

Description Enter the static-neighbor context

Introduced 16.0.R1

[ipv6-address] *ipv6-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery static-neighbor** *ipv6-address*

Description IPv6 address corresponding to the media-dependent physical address

Introduced 16.0.R1

Notes This element is part of a list key

mac-address *mac-address*

Context **configure service ies** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery static-neighbor** *ipv6-address*

Description Media-dependent physical address

Introduced 16.0.R1

Notes This element is mandatory

qos-route-lookup *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	QoS Route lookup
Options	destination, source
Introduced	16.0.R1

tcp-mss *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	TCP maximum segment size for the interface
Range	1220 to 9138
Introduced	16.0.R1

urpf-check

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the urpf-check context
Introduced	16.0.R1

ignore-default *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 urpf-check**
Description	Ignore default route when performing a uRPF check
Default	false
Introduced	16.0.R1

mode *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 urpf-check**
Description	Unicast RPF check mode
Default	strict
Options	strict, loose, strict-no-ecmp
Introduced	16.0.R1

vrrp [virtual-router-id] *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the vrrp context
Max. Elements	1
Introduced	16.0.R1

[virtual-router-id] *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Virtual Router Identifier (VRID) for the VRRP virtual router instance
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Administrative state of VRRP
Default	enable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

backup *ipv6-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Virtual router IP addresses for the interface
Max. Elements	4
Introduced	16.0.R1

bfd-liveness

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv6-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	ip-address.
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

init-delay *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	VRRP initialization delay timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	MAC address used by virtual router instance overriding the VRRP default derived from the VRID
Introduced	16.0.R1

master-int-inherit *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the master instance to dictate the master down timer
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

message-interval *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Interval for sending VRRP Advertisement messages
Range	1 to 4095
Default	100
Units	centiseconds
Introduced	16.0.R1

oper-group *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Operational group name associated with VRRP
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

owner

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Designate virtual router instance as owning the virutal router IP addresses
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Suppress the transmission and reception of VRRP advertisement messages
Default	false
Introduced	16.0.R1

ping-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to ICMP echo requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	VRRP priority control policy associated with the virtual router instance
Reference	configure **vrrp policy** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

preempt *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the VRRP to override an existing non-owner master
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

priority *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Base priority for the VRRP
Range	1 to 255
Introduced	16.0.R1

standby-forwarding *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the forwarding of packets by a standby router
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

telnet-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to Telnet requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

traceroute-reply *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to traceroute requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

load-balancing

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the load-balancing context
Introduced	16.0.R1

ip-load-balancing *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **load-balancing**
Description	Configure IP load balancing algorithm.
Default	both
Options	both, destination, source, inner-ip
Introduced	16.0.R3

spi-load-balancing *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **load-balancing**
Description	Allow use of SPI (Security Parameter Index) in hashing for ESP/AH encrypted IPv4/IPv6 traffic
Default	false
Introduced	16.0.R1

teid-load-balancing *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **load-balancing**
Description	Include TEID in hashing algorithm for GTP-U/C encapsulated traffic
Default	false
Introduced	16.0.R1

loopback *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Use interface as a loopback interface
Default	false
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	MAC address for the interface
Introduced	16.0.R1

mac-accounting *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enable MAC accounting functionality
Default	false
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Operational group to monitor
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

multicast-network-domain *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Network domain name
Reference	configure **router** *string* **network-domains network-domain** *string*
Introduced	16.0.R1

ptp-hw-assist

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the ptp-hw-assist context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **ptp-hw-assist**
Description	Administrative state of the port-based timestamping assist function for the interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

radius-auth-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Authentication policy
Reference	configure **subscriber-mgmt radius-authentication-policy** *string*
Introduced	16.0.R1

sap [sap-id] *sap*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the sap context
Max. Elements	1
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Accounting policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Administrative state of the SAP

Default enable

Options enable, disable

Introduced 16.0.R1

anti-spoof *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Anti-spoof filtering

Options source-ip-addr, source-mac-addr, source-ip-and-mac-addr, next-hop-ip-and-mac-addr

Introduced 16.0.R1

bandwidth *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description SAP bandwidth

Range 1 to 3200000000

Units kilobps

Introduced 16.0.R1

calling-station-id *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Calling station ID

String Length 1 to 64

Introduced 16.0.R1

collect-stats *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Collect accounting statistics

Default false

Introduced 16.0.R1

cpu-protection

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

ip-src-monitoring

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Enable IP source monitoring for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	CPM protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R4

description *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Distributed CPU protection policy for SAP
Reference	configure **system security dist-cpu-protection policy** *string*
Introduced	16.0.R1

egress

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the egress context
Introduced	16.0.R1

agg-rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress**

Description Enter the agg-rate context

Introduced 16.0.R1

limit-unused-bandwidth *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Enable aggregate rate overrun protection

Default false

Introduced 16.0.R1

queue-frame-based-accounting *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Maximum total rate of all egress queues in kbps.

Range 1 to 3200000000

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress filter**

Description MAC filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

policer-control-policy

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Priority level
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Minimum amount of cumulative buffer space allowed
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

policy-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy**
Description	Policer control policy name
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

qinq-mark-top-only *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**
Description	Mark top Q-tags
Default	false
Introduced	16.0.R1

sap-egress

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**
Description	Enter the sap-egress context
Introduced	16.0.R1

overrides

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress**

Description Enter the overrides context

Introduced 16.0.R1

hs-secondary-shaper *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**

Description HS Secondary Shaper

String Length 1 to 32

Introduced 16.0.R1

hs-wrr-group [group-id] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**

Description Enter the hs-wrr-group context

Introduced 16.0.R4

[group-id] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*

Description HS WRR group identifier

Reference configure **qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*

Introduced 16.0.R1

Notes This element is part of a list key

hs-class-weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*

Description Weight of scheduling class.

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

percent-rate *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR percent.
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-queues

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hsmda-queues context
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Packet byte offset for HSMDA queue
Range	-64 to 31
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*
Description	Egress HSMDA queue ID
Reference	configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

mbs (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*
Description	Buffer space allowed for the queue
Units	bytes
Introduced	16.0.R1

rate (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*
Description	Administrative PIR rate.
Introduced	16.0.R1

slope-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*
Description	Name of the slope-policy which is used to override the default slope-policy for the named buffer pool.
Reference	configure **qos hsmda-slope-policy** *string*
Introduced	16.0.R1

wrr-weight *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*
Description	Weight value for the HSMDA queue
Range	1 to 32
Introduced	16.0.R1

secondary-shaper *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Secondary shaper for the HSMDA queue
String Length	1 to 32
Introduced	16.0.R1

wrr-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	WRR policy for the HSMDA queue
Reference	configure **qos hsmda-wrr-policy** *string*
Introduced	16.0.R1

policer [policer-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the policer context
Introduced	16.0.R4

[policer-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description CBS

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Size of each packet, handled by the policer, to be modified

Range -64 to 31

Introduced 16.0.R1

percent-rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Mode of statistics collected by the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

avg-frame-overhead *decimal-number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Encapsulation overhead, in centipercent, used to translate packet-based rate to frame-based rate and vice versa.

Range 0.00 to 100.00

Introduced 16.0.R1

burst-limit (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Explicit shaping burst size of a queue.

Range 1 to 14000000

Options auto

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobytes

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

hs-class-weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Scheduling class weight.

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

hs-wred-queue

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the hs-wred-queue context

Introduced 16.0.R1

policy *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **hs-wred-queue**

Description Name of slope-policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R1

hs-wrr-weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Weighted Round Robin (WRR) weight to parent with this queue into the scheduler

Range 1 to 127

Default 1

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Units kilobytes

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Monitor queue depth
Default	false
Introduced	16.0.R1

parent

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the parent context
Introduced	16.0.R1

cir-weight *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**
Description	CIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

weight *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**
Description	PIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

percent-rate

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

policy-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress**
Description	Policy identifier
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

port-redirect-group

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress**
Description	Enter the port-redirect-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress port-redirect-group**
Description	Policy for port redirect queue group
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1

instance *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Instance of port queue group

Range 1 to 65535

Introduced 16.0.R1

scheduler-policy

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R4

scheduler [scheduler-name] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

queue-group-redirect-list *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **egress**

Description Assign queue-group redirect list

Reference configure **qos queue-group-redirect-list** *string*

Introduced 16.0.R1

eth-cfm

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the eth-cfm context

Introduced 16.0.R1

collect-lmm-fc-stats

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**

Description Enter the collect-lmm-fc-stats context

Introduced 16.0.R1

fc *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate AIS frames from the Maintenance Entity Group (MEG).
Default	false
Introduced	16.0.R1

alarm-notification

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the csf context
Introduced	16.0.R1

multiplier *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

eth-test

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**
Description	Test pattern for eth-test frames
Default	all-zeros
Options	all-zeros, all-ones
Introduced	16.0.R1

fault-propagation *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Fault propagation for the MEP
Options	use-if-status-tlv, suspend-ccm
Introduced	16.0.R1

grace

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the grace context
Introduced	16.0.R1

eth-ed

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**
Description	Enter the eth-ed context
Introduced	16.0.R1

max-rx-defect-window *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

priority *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

fwd-wholesale

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the fwd-wholesale context

Introduced 16.0.R4

pppoe-service *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **fwd-wholesale**

Description PPPoE service name

Reference configure **service epipe** *service-name*

Introduced 16.0.R4

host-admin-state *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Enable/disable administrative state of hosts

Default enable

Options enable, disable

Introduced 16.0.R1

host-lockout-policy *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Host lockout policy

Reference configure **subscriber-mgmt host-lockout-policy** *string*

Introduced 16.0.R1

ingress

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policer-control-policy

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Priority level

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Minimum amount of cumulative buffer space allowed

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

sap-ingress

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the sap-ingress context

Introduced 16.0.R1

fp-redirect-group

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**

Description Forwarding-plane queue group policy

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**

Description Queue group instance

Range 1 to 65535

Introduced 16.0.R1

overrides

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Enter the overrides context

Introduced 16.0.R4

policer [policer-id] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides**

Description Enter the policer context

Introduced 16.0.R4

[policer-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	CBS
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	MBS
Range	0 to 1073741824
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Size of each packet, handled by the policer, to be modified
Range	-32 to 31
Introduced	16.0.R1

percent-rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**

Description CIR percent rate

Range 0.00 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

pir *decimal-number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**

Description PIR percent rate

Range 0.01 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Enter the **rate** context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**

Description CIR rate

Range 0 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

pir (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**

Description PIR rate

Range 1 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

stat-mode *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Mode of statistics collected by the policer

Options no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir

Introduced 16.0.R1

queue [queue-id] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides**

Description Enter the queue context

Introduced 16.0.R4

[queue-id] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the adaptation-rule context
Introduced	16.0.R1

cir *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**
Description	Constraint used when deriving the operational CIR value
Options	max, min, closest
Introduced	16.0.R1

pir *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**
Description	Constraint used when deriving the operational PIR value
Options	max, min, closest
Introduced	16.0.R1

cbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobps

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Monitor queue depth

Default false

Introduced 16.0.R1

parent

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**

Description CIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**

Description PIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

percent-rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

policy-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**
Description	Policy identifier
Reference	configure **qos sap-ingress** *qos-policy-name*
Introduced	16.0.R1

queuing-type *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**
Description	Ingress queuing type
Options	shared, multipoint-shared
Introduced	16.0.R1

scheduler-policy

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy**
Description	Enter the overrides context
Introduced	16.0.R4

scheduler [scheduler-name] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

queue-group-redirect-list *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ingress**

Description Queue group redirect list

Reference configure **qos queue-group-redirect-list** *string*

Introduced 16.0.R1

ip-tunnel [tunnel-name] *interface-name*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the ip-tunnel context
Max. Elements	1
Introduced	16.0.R1

[tunnel-name] *interface-name*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	IP tunnel name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Administrative state of the tunnel
Default	disable
Options	enable, disable
Introduced	16.0.R1

backup-remote-ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Backup remote IP address that is applied to this tunnel
Introduced	16.0.R1

clear-df-bit *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Clear the Do-not-Fragment bit
Default	false
Introduced	16.0.R1

delivery-service *service-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Delivery service name
String Length	1 to 64
Introduced	16.0.R1

description *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dest-ip [dest-ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Enter the dest-ip context
Introduced	16.0.R1

[dest-ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **dest-ip** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Destination IP address of the tunnel
Introduced	16.0.R1
Notes	This element is part of a list key

dscp *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Differentiated Services Code Point (DSCP) name
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

encapsulated-ip-mtu *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Encapsulated IP MTU of this tunnel
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

gre-header

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Enter the gre-header context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header**
Description	Administrative state of the GRE header in the tunnel
Options	enable, disable
Introduced	16.0.R1

key

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header**
Description	Enter the key context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header key**
Description	Administrative state of the keys in the GRE header
Default	disable
Options	enable, disable
Introduced	16.0.R1

receive *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header key**
Description	Receive key of a GRE header
Default	0
Introduced	16.0.R1

send *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header key**
Description	Send key of a GRE header
Default	0
Introduced	16.0.R1

icmp6-generation

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Enter the icmp6-generation context
Introduced	16.0.R1

packet-too-big

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation**
Description	Enter the packet-too-big context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation packet-too-big**
Description	Administrative state of packet-too-big messages
Options	enable, disable
Introduced	16.0.R1

number *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation packet-too-big**
Description	Number of packet-too-big ICMPv6 messages issued in a specified time frame
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation packet-too-big**
Description	Time frame to limit the number of packet-too-big ICMPv6 messages
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ip-mtu *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	IP MTU of this tunnel
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

local-ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Local IP address of this tunnel
Introduced	16.0.R1

private-tcp-mss-adjust *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	TCP maximum segment size (MSS) on private network
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	TCP maximum segment size (MSS) on private network
Range	512 to 9000
Units	bytes
Options	auto
Introduced	16.0.R1

reassembly (*number* | *keyword*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Reassembly wait time
Range	1 to 5000
Units	milliseconds
Options	use-tunnel-group-setting, none
Introduced	16.0.R1

remote-ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Remote IP address of this tunnel
Introduced	16.0.R1

ipsec-gateway [name] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the ipsec-gateway context
Max. Elements	1
Introduced	16.0.R1

[name] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	IPsec gateway name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	Administrative state of the IPsec gateway.
Default	disable
Options	enable, disable
Introduced	16.0.R1

default-secure-service

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	Enter the default-secure-service context
Introduced	16.0.R1

interface *interface-name*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **default-secure-service**
Description	The name of the default interface used by this IPsec gateway.
String Length	1 to 32
Introduced	16.0.R1

service-name *service-name*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **default-secure-service**
Description	The name of the default security service used by this IPsec gateway.
String Length	1 to 64
Introduced	16.0.R1

default-tunnel-template *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	The IPsec tunnel template ID.
Reference	configure **ipsec tunnel-template** *number*
Introduced	16.0.R1

ike-policy *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*

Description IKE policy ID.

Reference configure **ipsec ike-policy** *number*

Introduced 16.0.R1

local

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*

Description Enter the local context

Introduced 16.0.R1

gateway-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local**

Description The IPsec gateway address.

Introduced 16.0.R1

id

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local**

Description Enter the id context

Introduced 16.0.R1

auto

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	System picks a local ID automatically based on auth-method configured in ike-policy.
Introduced	16.0.R1
Notes	This element is part of a choice

fqdn *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	The Fully Qualified Domain Name (FQDN) Local ID.
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4 *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	The IPv4 Local ID.
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6 *ipv6-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	The IPv6 Local ID.
Introduced	16.0.R1
Notes	This element is part of a choice

max-history-key-records

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	Enter the max-history-key-records context
Introduced	16.0.R1

esp *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **max-history-key-records**
Description	The maximum number of historical ESP keys which can be recorded by the system.
Range	1 to 48
Introduced	16.0.R1

ike *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **max-history-key-records**
Description	The maximum number of historical IKE keys which can be recorded by the system.
Range	1 to 3
Introduced	16.0.R1

pre-shared-key *encrypted-leaf*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	The pre-shared key used for authentication by two peers forming the tunnel for the IPSec gateway.
String Length	1 to 114
Introduced	16.0.R1

lag

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the lag context
Introduced	16.0.R1

link-map-profile *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **lag**
Description	LAG link map profile applied to a SAP or network interface
Range	1 to 64
Introduced	16.0.R1

per-link-hash

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **lag**
Description	Enter the per-link-hash context
Introduced	16.0.R1

class *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **lag per-link-hash**
Description	Class used on LAG egress when using weighted per-link-hash
Range	1 to 3
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **lag per-link-hash**
Description	Weight used on LAG egress when using weighted per-link-hash
Range	1 to 1024
Default	1
Introduced	16.0.R1

multi-service-site *string*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Multi service site name

String Length 1 to 32

Introduced 16.0.R1

static-host

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the static-host context

Introduced 16.0.R1

ipv4 [ip] *ipv4-address* **mac** *mac-unicast-address*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host**

Description Enter the ipv4 context

Introduced 16.0.R1

[ip] *ipv4-address*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description IP address

Introduced 16.0.R1

Notes This element is part of a list key

mac *mac-unicast-address*

Context **configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description MAC address

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Administrative state of the static host
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp-string *ancp-string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

sla-profile *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	SLA profile name
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Sub-profile name
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

subscriber-id

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Enter the subscriber-id context
Introduced	16.0.R1

string *subscriber-id*

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Subscriber identification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

use-sap-id

Context	**configure service ies** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Use the SAP id as subscriber ID
Introduced	16.0.R1
Notes	This element is part of a choice

shcv-policy-ipv4 *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Host connectivity IPv4 policy
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the spoke-sdp context
Max. Elements	1
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Policy to collect accounting statistics
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

encap *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **bfd-liveness**
Description	BFD encapsulation used on this SDP binding
Default	ipv4
Options	ipv4
Introduced	16.0.R1

bfd-template *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	BFD template associated with SDP binding
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Allow agent to collect accounting statistics
Default	false
Introduced	16.0.R1

control-word *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Use the control word as preferred
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

ip-src-monitoring

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Enable IP source monitoring for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**

Description CPM protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R1

description *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

egress

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos**

Description Enter the network context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network**

Description Egress network policy name applied to this SDP binding

Reference configure **qos network** *network-policy-name*

Introduced 16.0.R1

port-redirect-group

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**

Description Policy for port queue group for this SDP binding

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**

Description Instance of the port egress Queue Group for this SDP binding.

Range 1 to 65535

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Static MPLS VC label that is used to send packets to the far end device through this SDP

Range 16 to 1048575

Introduced 16.0.R1

entropy-label

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Whether the use of entropy-label is enabled or not.

Introduced 16.0.R1

Notes This element is part of a choice

eth-cfm

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the eth-cfm context

Introduced 16.0.R1

collect-lmm-fc-stats

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais *boolean*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate AIS frames from the Maintenance Entity Group (MEG).
Default	false
Introduced	16.0.R1

alarm-notification

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Generate CCM messages

Default false

Introduced 16.0.R1

ccm-ltm-priority *number*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Priority of CCM and LTM messages transmitted by the MEP

Range 0 to 7

Default 7

Introduced 16.0.R1

ccm-padding-size *number*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Additional octets inserted into CCM PDU for data TLV padding

Range 3 to 1500

Introduced 16.0.R1

csf

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-test

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-test context
Introduced	16.0.R1

bit-error-threshold *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Lowest priority defect threshold for the bit error trap to generate a fault alarm
Range	0 to 11840
Default	1
Units	bit errors
Introduced	16.0.R1

test-pattern

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP

Default true

Introduced 16.0.R1

low-priority-defect *keyword*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Lowest priority defect that is allowed to generate a fault alarm

Default mac-rem-err-xcon

Options all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon

Introduced 16.0.R1

one-way-delay-threshold *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

hash-label

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the **hash-label** context
Introduced	16.0.R1

signal-capability

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **hash-label**
Description	To signal the hash label capability to the remote PE.
Introduced	16.0.R1
Notes	This element is part of a choice

ingress

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the ingress context
Introduced	16.0.R1

filter

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**
Description	Enter the fp-redirect-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**
Description	Forwarding-plane queue group policy for this SDP binding
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1

instance *number*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**
Description	Instance of the forwarding-plane ingress Queue Group for this SDP binding
Range	1 to 65535
Introduced	16.0.R1

policy-name *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**
Description	Ingress network policy name applied to this SDP binding
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	1 to 1048575
Introduced	16.0.R1

vc-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Type of virtual circuit (VC) associated with the SDP binding
Default	ether
Options	ether, ipipe
Introduced	16.0.R1

tos-marking-state *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	TOS marking state
Default	untrusted
Options	trusted, untrusted
Introduced	16.0.R1

tunnel *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enable/disable tunnel interface
Default	false
Introduced	16.0.R1

vas-if-type *keyword*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	VAS interface type
Options	to-from-access, to-from-network, to-from-both
Introduced	16.0.R1

vpls [vpls-name] *string*

Context	**configure service ies** *service-name* **interface** *interface-name*
Description	Enter the vpls context
Max. Elements	1
Introduced	16.0.R1

[vpls-name] *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **vpls** *string*
Description	VPLS service
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

egress

Context	**configure service ies** *service-name* **interface** *interface-name* **vpls** *string*
Description	Enter the egress context
Introduced	16.0.R1

reclassify-using-qos *string*

Context	**configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **egress**
Description	Egress QoS policy
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

routed-override-filter

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **egress**

Description Enter the routed-override-filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **egress routed-override-filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **egress routed-override-filter**

Description IPv6 filter

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

ingress

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string*

Description Enter the ingress context

Introduced 16.0.R1

routed-override-filter

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **ingress**

Description Enter the routed-override-filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **ingress routed-override-filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **interface** *interface-name* **vpls** *string* **ingress routed-override-filter**

Description IPv6 filter

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

redundant-interface [interface-name] *interface-name*

Context **configure service ies** *service-name*

Description Enter the redundant-interface context

Introduced 16.0.R1

[interface-name] *interface-name*

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Name of the interface

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Administrative state of the interface

Default enable

Options enable, disable

Introduced 16.0.R1

description *string*

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Text description

String Length 1 to 160

Introduced 16.0.R1

hold-time

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Enter the hold-time context

Introduced 16.0.R1

ipv4

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **hold-time**

Description Enter the ipv4 context

Introduced 16.0.R1

down

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **hold-time ipv4**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **hold-time ipv4 down**

Description Apply down delay only when interface is configured or after reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **hold-time ipv4 down**

Description Down hold time for the IP interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

up

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **hold-time ipv4**

Description Enter the up context

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **hold-time ipv4 up**

Description Up hold time for the IP interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

ip-mtu *number*

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Interface IP MTU

Range 512 to 9000

Units bytes

Introduced 16.0.R1

ipv4

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Enter the ipv4 context

Introduced 16.0.R1

primary

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **ipv4**

Description Enter the primary context

Introduced 16.0.R1

address *ipv4-unicast-address*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **ipv4 primary**

Description IPv4 address assigned to a redundant interface.

Introduced 16.0.R1

Notes This element is mandatory

prefix-length *number*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **ipv4 primary**

Description The prefix length 0..32 for IPv4 Address.

Range 0 to 32

Introduced 16.0.R1

Notes This element is mandatory

remote-ip *ipv4-unicast-address*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **ipv4 primary**

Description IP address of the remote redundant interface.

Introduced 16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context **configure service ies** *service-name* **redundant-interface** *interface-name*

Description Enter the spoke-sdp context

Max. Elements 1

Introduced 16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

control-word *boolean*

Context	**configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Use the control word as preferred
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Static MPLS VC label that is used to send packets to the far end device through this SDP

Range 16 to 1048575

Introduced 16.0.R1

ingress

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service ies** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Static MPLS VC label used by the far end device to send packets through this SDP

Range 1 to 1048575

Introduced 16.0.R1

service-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service ies** *service-name*

Description Unique service ID; cannot be used by any other service, regardless of service type

Range 1 to 2147483647

Introduced 16.0.R1

subscriber-interface [interface-name] *interface-name*

Context	**configure service ies** *service-name*
Description	Enter the subscriber-interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Administratively enable/disable the interface.
Default	enable
Options	enable, disable
Introduced	16.0.R4

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Description for the interface.
String Length	1 to 160
Introduced	16.0.R4

fwd-service *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Configure the forwarding service.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R4

fwd-subscriber-interface *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Configure the forwarding subscriber interface.
Reference	configure **service vprn** *service-name* **subscriber-interface** *interface-name*
Introduced	16.0.R4

group-interface [group-interface-name] *interface-name*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Enter the group-interface context
Introduced	16.0.R1

[group-interface-name] *interface-name*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

arp-host

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the arp-host context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**

Description Administrative state of ARP hosts

Default disable

Options enable, disable

Introduced 16.0.R1

host-limit *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**

Description Maximum number of ARP triggered hosts.

Range 1 to 524287

Default 1

Introduced 16.0.R1

min-auth-interval *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**

Description Minimal time that has to pass before incoming ARPs of an active ARP host are re-authenticated

Range 1 to 6000

Default 15

Units minutes

Introduced 16.0.R1

sap-host-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**
Description	Maximum number of ARP triggered hosts allowed per SAP
Range	1 to 131071
Default	1
Introduced	16.0.R1

bonding-parameters

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the bonding-parameters context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	Administrative state of ESM bonding
Default	disable
Options	enable, disable
Introduced	16.0.R1

connection [connection-index] *connection-index*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	Enter the connection context
Introduced	16.0.R1

[connection-index] *bonding-connection-index*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters connection** *connection-index*
Description	Bonding connection index
Range	1 to 2
Introduced	16.0.R4
Notes	This element is part of a list key

service *service-name*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters connection** *connection-index*
Description	Connection service
String Length	1 to 64
Introduced	16.0.R4

fpe *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	FPE that provisions bonding functionality
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R1

multicast

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	Enter the multicast context
Introduced	16.0.R1

connection *multicast-bonding-connection*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters multicast**
Description	Multicast connection
Default	use-incoming
Introduced	16.0.R1

brg

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the brg context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **brg**
Description	Administrative state of BRG
Default	disable
Options	enable, disable
Introduced	16.0.R1

authenticated-brg-only *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **brg**
Description	Allow BRGs that have been pre-authenticated
Default	false
Introduced	16.0.R1

default-brg-profile *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **brg**
Description	Default BRG profile that can be overridden during authentication
Reference	configure **subscriber-mgmt vrgw brg-profile** *string*
Introduced	16.0.R1

cflowd-parameters

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the cflowd-parameters context
Introduced	16.0.R4

sampling [sampling-type] *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters**
Description	Enter the sampling context
Introduced	16.0.R4

[sampling-type] *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	Cflowd sampling type for virtual router interface
Options	unicast, multicast
Introduced	16.0.R4
Notes	This element is part of a list key

direction *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The direction of the Cflowd analysis that is applied to the given interface.
Default	ingress-only
Options	ingress-only, egress-only, both
Introduced	16.0.R4

type *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The type of Cflowd analysis that is applied to the given interface.
Options	acl, interface
Introduced	16.0.R4
Notes	This element is mandatory

data-trigger

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the data-trigger context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **data-trigger**
Description	Administrative state of data triggered host creation
Default	disable
Options	enable, disable
Introduced	16.0.R4

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dynamic-routes-track-srrp

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the dynamic-routes-track-srrp context
Introduced	16.0.R1

hold-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **dynamic-routes-track-srrp**
Description	Delay before updating the route state after the last SRRP transition
Range	1 to 50
Units	deciseconds
Introduced	16.0.R1

gtp-parameters

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the gtp-parameters context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **gtp-parameters**
Description	Administrative state of GTP Access
Default	disable
Options	enable, disable
Introduced	16.0.R1

fpe *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **gtp-parameters**
Description	PE that provisions the GTP user interface
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R1

gx-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Diameter application policy
Reference	configure **subscriber-mgmt diameter-gx-policy** *string*
Introduced	16.0.R1

ingress-stats *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Collect ingress interface statistics
Default	false
Introduced	16.0.R1

ip-mtu *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Interface IP MTU
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

ipoe-linking

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the ipoe-linking context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-linking**
Description	Administrative state of IPoE host linking
Default	disable
Options	enable, disable
Introduced	16.0.R1

gratuitous-router-advertisement *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-linking**
Description	Send unsolicited router advertisement after DHCP setup
Default	false
Introduced	16.0.R1

shared-circuit-id *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-linking**
Description	Block DHCPv6 with unknown interface-id (circuit-id) until a circuit-id is learned from DHCP.
Default	false
Introduced	16.0.R1

ipoe-session

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the ipoe-session context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Administrative state of IPoE session
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

force-auth

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**

Description Enter the force-auth context

Introduced 16.0.R1

cid-change *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session force-auth**

Description Ignore min-auth-interval when circuit ID changed

Introduced 16.0.R1

rid-change *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session force-auth**

Description Ignore min-auth-interval when remote ID changed

Introduced 16.0.R1

ipoe-session-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**

Description IPoE Session policy to be used for new sessions

Reference configure **subscriber-mgmt ipoe-session-policy** *string*

Introduced 16.0.R1

min-auth-interval *ipoe-session-min-auth-interval*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Minimum time between two authentication attempts
Default	infinite
Units	seconds
Introduced	16.0.R1

radius-session-timeout *ipoe-session-radius-session-timeout*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Session timeout attribute to be interpreted
Options	absolute, ignore, backwards-compatible
Introduced	16.0.R1

sap-session-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Maximum number of sessions per SAP
Range	1 to 131071
Introduced	16.0.R1

session-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Maximum number of sessions on this group interface
Range	1 to 500000
Introduced	16.0.R1

stateless-redundancy *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Remove IPoE sessions when the system becomes stand-by in a stateless multi-chassis redundancy setup
Default	false
Introduced	16.0.R1

user-db *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Local user database that is used to (pre-)authenticate new sessions
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

ipv4

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

dhcp

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**
Description	Enter the dhcp context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Administratively enable/disable DHCP.

Default disable

Options enable, disable

Introduced 16.0.R4

client-applications

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the client-applications context

Introduced 16.0.R4

dhcp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable DHCP as client application.

Default true

Introduced 16.0.R4

ppp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable PPP as client application.

Default false

Introduced 16.0.R4

description *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Add/remove a text description for DHCP.

String Length 1 to 80

Introduced 16.0.R4

filter *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description DHCP filter.

Reference configure **filter dhcp-filter** *number*

Introduced 16.0.R4

gi-address *ipv4-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Configure the gateway interface address for the DHCP relay.

Introduced 16.0.R4

lease-populate

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

l2-header

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp lease-populate**

Description Enter the l2-header context

Introduced 16.0.R1

mac *mac-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp lease-populate l2-header**

Description Specify the MAC address.

Introduced 16.0.R4

max-leases *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp lease-populate**
Description	The maximum number of DHCPv4 leases.
Range	1 to 511999
Default	1
Introduced	16.0.R4

match-circuit-id *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Configure match Opt82 circuit ID on relayed DHCP packets.
Default	false
Introduced	16.0.R4

option-82

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Enter the option-82 context
Introduced	16.0.R4

action *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**
Description	What to do with DHCP option 82.
Default	keep
Options	replace, drop, keep
Introduced	16.0.R4

circuit-id

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**
Description	Enter the circuit-id context
Introduced	16.0.R4

ascii-tuple

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

ifindex

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ifindex in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Do not include the circuit-id.

Introduced 16.0.R4

Notes This element is part of a choice

sap-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use SAP ID in the option.

Introduced 16.0.R4

Notes This element is part of a choice

vlan-ascii-tuple

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use vlan-ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

remote-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the remote-id context

Introduced 16.0.R4

ascii-string *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Use user-defined ASCII string in the option.

String Length 1 to 32

Introduced 16.0.R4

Notes This element is part of a choice

mac

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Use MAC address in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Do not include the remote-id.

Introduced 16.0.R4

Notes This element is part of a choice

vendor-specific-option

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the vendor-specific-option context

Introduced 16.0.R4

client-mac-address *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

pool-name *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the pool name in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the proxy-server context

Introduced 16.0.R4

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server**

Description Administrative state of DHCP proxy

Default disable

Options enable, disable

Introduced 16.0.R1

emulated-server *ipv4-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server**

Description IP address used as the DHCP server address in the context of this service

Introduced 16.0.R1

lease-time

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server**

Description Enter the lease-time context

Introduced 16.0.R1

radius-override *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	Use lease time information provided by RADIUS server
Default	false
Introduced	16.0.R1

value *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	DHCP lease time
Range	300 to 315446399
Units	seconds
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Python policy.
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

relay-proxy

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Enter the relay-proxy context
Introduced	16.0.R1

release-update-src-ip *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify whether or not to relay release messages.
Default	false
Introduced	16.0.R4

siaddr-override *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify the IP address to use.
Introduced	16.0.R4

server *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

trusted *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable relaying of untrusted packets.
Default	false
Introduced	16.0.R4

user-db *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Configure the local user database to use for authentication.

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R4

icmp

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description Enter the icmp context

Introduced 16.0.R1

mask-reply *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Allow responses to ICMP mask requests

Default true

Introduced 16.0.R1

param-problem

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Enter the param-problem context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp param-problem**

Description Administrative state of sending parameter-problem messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp param-problem**

Description Number of parameter-problem ICMP messages to send in specified time interval

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp param-problem**

Description Time used to limit number of parameter-problem ICMP messages issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

redirects

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Enter the redirects context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp redirects**

Description Administrative state of sending ICMP redirects

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp redirects**
Description	Maximum number of ICMP redirect messages to send
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp redirects**
Description	Time to limit the number of ICMP redirect messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ttl-expired

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**
Description	Enter the ttl-expired context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Administrative state of sending TTL expired messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp ttl-expired**

Description Maximum number of TTL expired messages to send

Range 10 to 2000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp ttl-expired**

Description Time to limit the number of ICMP TTL expired messages that can be issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

unreachables

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Enter the unreachables context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp unreachables**

Description Administrative state of sending unreachable messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp unreachables**

Description Maximum number of unreachable messages to send

Range 10 to 2000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp unreachables**

Description Time to limit the number of unreachable messages that can be issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

neighbor-discovery

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

local-proxy-arp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**

Description Enable local proxy ARP on interface

Default true

Introduced 16.0.R1

populate *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow static and dynamic hosts to be populated in system ARP cache
Introduced	16.0.R1

proxy-arp-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Proxy ARP policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

remote-proxy-arp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable remote proxy ARP on interface
Default	false
Introduced	16.0.R1

timeout *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Timeout for an ARP entry learned on the interface
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

qos-route-lookup *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description QoS route lookup

Options destination

Introduced 16.0.R1

urpf-check

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description Enter the urpf-check context

Introduced 16.0.R1

mode *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 urpf-check**

Description Unicast RPF check mode

Default strict

Options strict, loose, strict-no-ecmp

Introduced 16.0.R1

ipv6

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the ipv6 context

Introduced 16.0.R1

allow-multiple-wan-addresses *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Configure if the interface will accept multiple WAN addresses.

Default false

Introduced 16.0.R4

auto-reply

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enter the auto-reply context

Introduced 16.0.R1

neighbor-solicitation *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 auto-reply**

Description Enable auto-reply for NS

Default false

Introduced 16.0.R1

router-solicitation *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 auto-reply**

Description Enable auto-reply for RS

Default false

Introduced 16.0.R1

dhcp6

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enter the dhcp6 context

Introduced 16.0.R1

filter *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description DHCPv6 filter

Reference configure **filter dhcp6-filter** *number*

Introduced 16.0.R1

option

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Enter the option context

Introduced 16.0.R1

interface-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option**

Description Enter the interface-id context

Introduced 16.0.R1

ascii-tuple

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**

Description Use ASCII-encoded concatenated tuple in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

if-index

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**

Description Use interface index in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

sap-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**

Description Use SAP ID in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**
Description	String for interface ID option in DHCPv6 relay packet
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option**
Description	Allow remote ID option to be sent in the DHCPv6 relay packet
Default	false
Introduced	16.0.R1

override-slaac *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Allow WAN address offered by DHCP to overwrite the WAN address acquired from SLAAC
Default	false
Introduced	16.0.R1

pd-managed-route

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the pd-managed-route context
Introduced	16.0.R1

next-hop *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 pd-managed-route**
Description	Next hop type
Default	ipv6
Options	ipv4, ipv6
Introduced	16.0.R1

proxy-server

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the proxy-server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Administrative state of DHCPv6 proxy server
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Enter the client-applications context
Introduced	16.0.R1

dhcp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**
Description	Allow the DHCP application to make use of the DHCP relay functionality on this interface.
Default	true
Introduced	16.0.R1

ppp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**

Description Allow the PPP application to use DHCP relay functionality

Default false

Introduced 16.0.R1

preferred-lifetime *dhcp6-prefix-lifetime*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Time for prefix to remain preferred on this interface

Default 3600

Introduced 16.0.R1

rebind-timer *dhcp6-rebind-timer*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Rebind timer (T2) for this interface

Range 0 to 1209600

Introduced 16.0.R1

renew-timer *dhcp6-renew-timer*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Renew timer (T1)

Range 0 to 604800

Introduced 16.0.R1

server-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Enter the server-id context

Introduced 16.0.R1

duid-en-ascii *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as an ASCII string
String Length	1 to 58
Introduced	16.0.R1
Notes	This element is part of a choice

duid-en-hex *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as a hexadecimal string
String Length	1 to 118
Introduced	16.0.R1
Notes	This element is part of a choice

duid-ll

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Use link-layer address (DUID-LL) as DUID
Introduced	16.0.R1
Notes	This element is part of a choice

valid-lifetime *dhcp6-prefix-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Time for prefix to remain valid on this interface
Default	86400
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

relay

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the relay context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Administrative state of DHCvP6 relay
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Enter the client-applications context
Introduced	16.0.R1

dhcp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay client-applications**
Description	Allow the DHCP application to make use of the DHCP relay functionality on this interface.
Default	true
Introduced	16.0.R1

ppp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay client-applications**

Description Allow the PPP application to use DHCP relay functionality

Default false

Introduced 16.0.R1

description *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**

Description Link address for the DHCPv6 relay messages

Introduced 16.0.R1

server *ipv6-address-with-zone*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**

Description DHCP6 server(s) to which the DHCP6 requests are forwarded

Max. Elements 8

Introduced 16.0.R1

Notes This element is ordered by user

source-address *ipv6-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**

Description Source IPv6 address for the DHCPv6 relay messages

Introduced 16.0.R1

snooping

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Enter the snooping context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 snooping**

Description Enable/disable DHCP6 snooping

Default disable

Options enable, disable

Introduced 16.0.R1

user-db *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Assign a local user database.

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R1

user-ident *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description DHCP6 user identification for this interface

Default mac

Options mac, mac-interface-id

Introduced 16.0.R1

ipoe-bridged-mode *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enable/Disable IPv6 IPoE Bridged Mode.

Default false

Introduced 16.0.R4

neighbor-discovery

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

dad-snooping *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 neighbor-discovery**

Description Duplicate address detection packets that are snooped to populate new neighbor entries for SLAAC hosts

Default false

Introduced 16.0.R1

neighbor-limit *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 neighbor-discovery**

Description Maximum number of neighbor entries learned per SLAAC host

Range 1 to 8

Default 1

Introduced 16.0.R1

qos-route-lookup *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description QoS route lookup

Options destination

Introduced 16.0.R1

router-advertisements

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**
Description	Enter the router-advertisements context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Administrative state of router advertisement
Default	disable
Options	enable, disable
Introduced	16.0.R1

force-mcast *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Send router advertisement to a multicast address instead of unicast for IPoE
Options	ip, ip-mac
Introduced	16.0.R1

max-advertisement-interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Maximum advertisement interval
Range	900 to 1800
Default	1800
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**

Description Minimum advertisement interval

Range 900 to 1350

Default 900

Units seconds

Introduced 16.0.R1

options

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**

Description Enter the options context

Introduced 16.0.R1

current-hop-limit *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**

Description Hop limit to be advertised

Range 0 to 255

Default 64

Introduced 16.0.R1

dns

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**

Description Enter the dns context

Introduced 16.0.R1

include-rdnss *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options dns**
Description	Include the RDNSS server option 25
Default	false
Introduced	16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options dns**
Description	Maximum time for the RDNSS address to remain valid
Range	900 to 3600
Default	3600
Units	seconds
Options	infinite
Introduced	16.0.R1

managed-configuration *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Managed address configuration flag
Default	false
Introduced	16.0.R1

mtu (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Advertised MTU value
Range	1280 to 9212
Default	not-included
Units	bytes
Options	not-included
Introduced	16.0.R1

other-stateful-configuration *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Other stateful configuration flag
Default	false
Introduced	16.0.R1

reachable-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery reachable time that is advertised for this group interface
Range	0 to 3600000
Default	0
Units	milliseconds
Introduced	16.0.R1

retransmit-timer *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery retrasnmit timer that is advertised for this group interface
Range	0 to 1800000
Default	0
Units	seconds
Introduced	16.0.R1

router-lifetime (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Router lifetime
Range	2700 to 9000
Default	4500
Units	seconds
Options	no-default-router
Introduced	16.0.R1

prefix-options

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Enter the prefix-options context
Introduced	16.0.R1

autonomous *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Value of the autonomous flag
Default	false
Introduced	16.0.R1

on-link *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Assign the prefix to an interface on the specified link
Default	true
Introduced	16.0.R1

preferred-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain preferred
Default	3600
Units	seconds
Introduced	16.0.R1

valid-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain valid
Default	86400
Units	seconds
Introduced	16.0.R1

router-solicit

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**
Description	Enter the router-solicit context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Administrative state of router-solicit based authentication
Default	disable
Options	enable, disable
Introduced	16.0.R1

inactivity-timer (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Timebefore an inactive host is removed
Range	1 to 31536000
Default	300
Units	seconds
Options	infinite
Introduced	16.0.R1

min-auth-interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Minimum interval between two consecutive authentication attempts for the same host
Range	1 to 360000
Default	300
Units	seconds
Introduced	16.0.R1

user-db *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Local user-database that is used for router solicit based authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

urpf-check

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**
Description	Enter the urpf-check context
Introduced	16.0.R1

mode *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 urpf-check**
Description	Unicast RPF check mode
Default	strict
Options	strict, loose, strict-no-ecmp
Introduced	16.0.R1

local-address-assignment

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the local-address-assignment context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment**

Description Administrative state of local address assignment

Default disable

Options enable, disable

Introduced 16.0.R1

ipv4

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment**

Description Enter the ipv4 context

Introduced 16.0.R1

client-applications

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4**

Description Enter the client-applications context

Introduced 16.0.R1

ipoe *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4 client-applications**

Description Request local addresses for non-DHCP/managed IPoE hosts

Default false

Introduced 16.0.R1

ppp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4 client-applications**
Description	Request local addresses for PPP IPCP hosts
Default	false
Introduced	16.0.R1

default-pool *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4**
Description	Default pools
String Length	1 to 32
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

server *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4**
Description	Local DHCP server that contains pools for local address assignment
Reference	configure **router** *string* **dhcp-server dhcpv4** *string*
Introduced	16.0.R1

ipv6

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment**
Description	Enter the ipv6 context
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6**
Description	Enter the client-applications context
Introduced	16.0.R1

ipoe-slaac *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for IPoE SLAAC hosts

Default false

Introduced 16.0.R1

ipoe-wan *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for IPoE IA NA hosts

Default false

Introduced 16.0.R1

ppp-slaac *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for PPP SLAAC hosts

Default false

Introduced 16.0.R1

server *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6**

Description Local DHCPv6 server that contains pools for local address assignment

Reference configure **router** *string* **dhcp-server dhcpv6** *string*

Introduced 16.0.R1

mac *mac-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description MAC address for the interface

Introduced 16.0.R1

nasreq-auth-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Diameter NASREQ application policy to use for authentication
Reference	configure **subscriber-mgmt diameter-nasreq-policy** *string*
Introduced	16.0.R1

oper-up-while-empty *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enable this group interface without any active SAPs
Default	false
Introduced	16.0.R1

pppoe

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the pppoe context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Administrative state of PPPoE
Default	disable
Options	enable, disable
Introduced	16.0.R1

anti-spoof *pppoe-anti-spoof*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	PPPoE anti-spoof filtering
Default	mac-sid
Options	mac-sid, mac-sid-ip
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	PPPoE policy
Reference	configure **subscriber-mgmt ppp-policy** *string*
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Python policy used to modify PPPoE packets
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

sap-session-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Maximum PPPoE sessions per SAP
Range	1 to 131071
Default	1
Introduced	16.0.R1

session-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Maximum PPPoE sessions
Range	1 to 262143
Default	1
Introduced	16.0.R1

user-db *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Local user database for authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

radius-auth-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	RADIUS authentication policy
Reference	configure **subscriber-mgmt radius-authentication-policy** *string*
Introduced	16.0.R1

redundant-interface *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Redundant interface
Reference	configure **service ies** *service-name* **redundant-interface** *interface-name*
Introduced	16.0.R1

sap [sap-id] *sap*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the sap context
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Accounting policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Administrative state of the SAP
Default	enable
Options	enable, disable
Introduced	16.0.R1

anti-spoof *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Type of anti-spoof filtering
Default	source-ip-and-mac-addr
Options	source-ip-addr, source-ip-and-mac-addr, next-hop-ip-and-mac-addr
Introduced	16.0.R1

calling-station-id *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Calling station ID
String Length	1 to 64
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Collect accounting statistics
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**

Description Apply rate limit to the sum of the per peer packet rates

Introduced 16.0.R1

Notes This element is part of a choice

car

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**

Description Eth-CFM packets to be ignored when enforcing overall rate

Introduced 16.0.R1

Notes This element is part of a choice

ip-src-monitoring

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**

Description Enable IP source monitoring for CPU protection

Introduced 16.0.R1

Notes This element is part of a choice

mac-monitoring

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**

Description Monitor MAC for CPU protection

Introduced 16.0.R1

Notes This element is part of a choice

policy-id *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**

Description CPM protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R4

default-host

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the default-host context
Introduced	16.0.R1

ipv4 [address] *string* prefix-length *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host**
Description	Enter the ipv4 context
Introduced	16.0.R1

[address] *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv4** *string* **prefix-length** *number*
Description	IPv4 default host address.
Reference	configure **service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Introduced	16.0.R1
Notes	This element is part of a list key

prefix-length *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv4** *string* **prefix-length** *number*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

next-hop *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv4** *string* **prefix-length** *number*
Description	Next-hop used to forward default-host traffic on this SAP.
Introduced	16.0.R1
Notes	This element is mandatory

ipv6 [address] *ipv6-unicast-address* **prefix-length** *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host**
Description	Enter the ipv6 context
Introduced	16.0.R1

[address] *ipv6-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv6** *ipv6-unicast-address* **prefix-length** *number*
Description	IPv6 default host address.
Introduced	16.0.R1
Notes	This element is part of a list key

prefix-length *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv6** *ipv6-unicast-address* **prefix-length** *number*
Description	IPv6 address prefix length
Range	0 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

next-hop *ipv6-unicast-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv6** *ipv6-unicast-address* **prefix-length** *number*
Description	Next-hop used to forward default-host traffic on this SAP.
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Distributed CPU protection policy for SAP
Reference	configure **system security dist-cpu-protection policy** *string*
Introduced	16.0.R1

egress

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the egress context
Introduced	16.0.R1

agg-rate

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress**
Description	Enter the agg-rate context
Introduced	16.0.R1

limit-unused-bandwidth *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Enable aggregate rate overrun protection

Default false

Introduced 16.0.R1

queue-frame-based-accounting *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Maximum total rate of all egress queues in kbps.

Range 1 to 3200000000

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress filter**

Description MAC filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

policer-control-policy

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

qinq-mark-top-only *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Mark top Q-tags

Default false

Introduced 16.0.R1

sap-egress

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the sap-egress context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos sap-egress**

Description Policy identifier

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

scheduler-policy

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

eth-cfm

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the eth-cfm context
Introduced	16.0.R1

collect-lmm-fc-stats

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Administrative state of the MEP

Default disable

Options enable, disable

Introduced 16.0.R1

ais *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Generate AIS frames from the Maintenance Entity Group (MEG).

Default false

Introduced 16.0.R1

alarm-notification

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the alarm-notification context

Introduced 16.0.R1

fng-alarm-time *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**

Description Time to expire before a Fault Notification Generation (FNG) alarm

Range 250 | 500 | 1000

Units centiseconds

Introduced 16.0.R1

fng-reset-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**

Description Receive period multiplier to time out CSF

Range 0.0 | 2.0 to 30.0

Default 3.5

Introduced 16.0.R1

description *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

eth-test

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP
Default	true
Introduced	16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

fwd-wholesale

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the fwd-wholesale context
Introduced	16.0.R1

pppoe-service *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **fwd-wholesale**
Description	PPPoE service name
Reference	configure **service epipe** *service-name*
Introduced	16.0.R1

host-admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Administrative state of hosts
Default	enable
Options	enable, disable
Introduced	16.0.R1

host-lockout-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Host lockout policy
Reference	configure **subscriber-mgmt host-lockout-policy** *string*
Introduced	16.0.R1

igmp-host-tracking

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the igmp-host-tracking context
Introduced	16.0.R1

expiry-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Time during which the system continues to track inactive hosts
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

import-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Maximum number of multicast groups to be tracked per group
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**

Description Maximum number of multicast groups to be tracked

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**

Description Maximum number of multicast sources to be tracked

Range 1 to 1000

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**

Description Enable IGMP router alert check option

Default true

Introduced 16.0.R1

ingress

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policer-control-policy

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

sap-ingress

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the sap-ingress context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Policy identifier

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R1

queuing-type *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Ingress queuing type

Options shared, multipoint-shared

Introduced 16.0.R4

scheduler-policy

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

lag

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the lag context

Introduced 16.0.R1

link-map-profile *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag**

Description LAG link map profile applied to a SAP or network interface

Range 1 to 64

Introduced 16.0.R1

per-link-hash

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag**

Description Enter the per-link-hash context

Introduced 16.0.R1

class *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag per-link-hash**

Description Class used on LAG egress when using weighted per-link-hash

Range 1 to 3

Default 1

Introduced 16.0.R1

weight *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag per-link-hash**
Description	Weight used on LAG egress when using weighted per-link-hash
Range	1 to 1024
Default	1
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Monitor operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

multi-service-site *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Multi service site name
String Length	1 to 32
Introduced	16.0.R1

oper-group *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

static-host

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the static-host context

Introduced 16.0.R1

ipv4 [ip] *ipv4-unicast-address* mac *mac-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host**

Description Enter the ipv4 context

Introduced 16.0.R1

[ip] *ipv4-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description IP address used by the static host.

Introduced 16.0.R1

Notes This element is part of a list key

mac *mac-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description MAC address of the static host.

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Administrative state of the static host

Default disable

Options enable, disable

Introduced 16.0.R1

ancp-string *ancp-string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

managed-route [prefix] *ipv4-unicast-prefix*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	Enter the managed-route context
Max. Elements	16
Introduced	16.0.R4

[prefix] *ipv4-unicast-prefix*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address* **managed-route** *ipv4-unicast-prefix*
Description	Managed route prefix.
Introduced	16.0.R4
Notes	This element is part of a list key

rip-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	RIP policy name
Reference	configure **subscriber-mgmt rip-policy** *string*
Introduced	16.0.R1

shcv

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Enter the shcv context

Introduced 16.0.R4

sla-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description SLA profile name

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Sub-profile name

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Enter the subscriber-id context

Introduced 16.0.R1

string *subscriber-id*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address* **subscriber-id**

Description Subscriber identification

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

use-sap-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address* **subscriber-id**

Description Use the SAP id as subscriber ID

Introduced 16.0.R1

Notes This element is part of a choice

ipv6 [prefix] *ipv6-unicast-prefix* mac *mac-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host**

Description Enter the ipv6 context

Introduced 16.0.R1

[prefix] *ipv6-unicast-prefix*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description IPv6 prefix

Introduced 16.0.R1

Notes This element is part of a list key

mac *mac-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description MAC address

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Administrative state of the static host

Default disable

Options enable, disable

Introduced 16.0.R1

ancp-string *ancp-string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

mac-linking *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	IPv6 host associated with the IPv4 host through the learned MAC address
Introduced	16.0.R1

managed-route [ipv6-prefix] *ipv6-unicast-prefix*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	Enter the managed-route context
Max. Elements	16
Introduced	16.0.R4

[ipv6-prefix] *ipv6-unicast-prefix*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **managed-route** *ipv6-unicast-prefix*
Description	Managed route prefix.
Introduced	16.0.R4
Notes	This element is part of a list key

metric *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **managed-route** *ipv6-unicast-prefix*

Description Managed route metric.

Default 0

Introduced 16.0.R4

retail-svc-id *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Retail service ID

Range 1 to 2147483647

Introduced 16.0.R1

shcv

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Enter the shcv context

Introduced 16.0.R4

sla-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description SLA profile name

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Sub-profile name

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Enter the subscriber-id context

Introduced 16.0.R1

string *subscriber-id*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **subscriber-id**

Description Subscriber identification

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

use-sap-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **subscriber-id**

Description Use the SAP id as subscriber ID

Introduced 16.0.R1

Notes This element is part of a choice

mac-learning

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host**

Description Enter the mac-learning context

Introduced 16.0.R4

data-triggered *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host mac-learning**

Description Enable learning of MAC addresses from data packets.

Default false

Introduced 16.0.R4

single-mac *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host mac-learning**

Description Enforce the limit of a single MAC address per SAP, learned by means of ICMPv6.

Default false

Introduced 16.0.R4

sub-sla-mgmt

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the sub-sla-mgmt context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Administrative state of subscriber management on this SAP

Default disable

Options enable, disable

Introduced 16.0.R1

defaults

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Enter the defaults context

Introduced 16.0.R1

int-dest-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**

Description Enter the int-dest-id context

Introduced 16.0.R1

string *int-dest-id*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults int-dest-id**
Description	Use the configured string
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

top-q-tag

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults int-dest-id**
Description	Use the top Q-tag of this SAP
Introduced	16.0.R1
Notes	This element is part of a choice

sla-profile *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Default SLA profile for hosts on this SAP
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Default subscriber profile used for subscribers on this SAP
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

subscriber-id

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Enter the subscriber-id context
Introduced	16.0.R1

auto-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**

Description Use auto-generated subscriber identification string

Introduced 16.0.R1

Notes This element is part of a choice

sap-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**

Description Use SAP ID as default subscriber identification string

Introduced 16.0.R1

Notes This element is part of a choice

string *subscriber-id*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**

Description Subscriber ID policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

single-sub-parameters

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Enter the single-sub-parameters context

Introduced 16.0.R1

non-sub-traffic

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters**

Description Enter the non-sub-traffic context

Introduced 16.0.R1

sla-profile *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**
Description	SLA profile applicable for all non-subscriber traffic
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

sub-profile *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**
Description	Subscriber IDprofile applied for all non-subscriber traffic
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

subscriber-id *subscriber-id*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**
Description	Subscriber ID applied for all non-subscriber traffic
String Length	1 to 32
Introduced	16.0.R1

profiled-traffic-only *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters**
Description	Include all traffic in subscriber profile
Default	false
Introduced	16.0.R1

sub-ident-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**
Description	Subscriber identification policy used on this SAP
Reference	configure **subscriber-mgmt sub-ident-policy** *external-named-item*
Introduced	16.0.R1

subscriber-limit *sap-subscriber-limit*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**
Description	Maximum number of subscribers on this SAP
Default	1
Introduced	16.0.R1

sap-parameters

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the sap-parameters context
Introduced	16.0.R1

anti-spoof *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters**
Description	Anti-spoofing type.
Default	ip-mac
Options	ip-mac, nh-mac
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

sub-sla-mgmt

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters**

Description Enter the sub-sla-mgmt context

Introduced 16.0.R1

defaults

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt**

Description Enter the defaults context

Introduced 16.0.R1

sla-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults**

Description Default SLA profile

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults**

Description Default subscriber profile

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults**

Description Enter the subscriber-id context

Introduced 16.0.R1

auto-id

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults subscriber-id**
Description	Subscriber ID that is autogenerated
Introduced	16.0.R1
Notes	This element is part of a choice

string *subscriber-id*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults subscriber-id**
Description	String to be used as default subscriber ID
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

sub-ident-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt**
Description	Subscriber identification policy
Reference	configure **subscriber-mgmt sub-ident-policy** *external-named-item*
Introduced	16.0.R1

shcv-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Subscriber host connectivity verification policy for IPv4 and IPv6
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

shcv-policy-ipv4 *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Subscriber host connectivity verification policy for IPv4
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

shcv-policy-ipv6 *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Subscriber host connectivity verification policy for IPv6
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

srrp [srrp-id] *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the srrp context
Max. Elements	1
Introduced	16.0.R1

[srrp-id] *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	SRRP instance ID
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Administrative state of SRRP
Default	disable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **bfd-liveness**
Description	Destination IPv4 prefix
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

gw-mac *mac-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Gateway MAC address
Introduced	16.0.R1

keep-alive-interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Interval between SRRP advertisements
Range	1 to 100
Default	10
Units	deciseconds
Introduced	16.0.R1

message-path *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	SAP to use as the SRRP message path
Reference	configure **service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Introduced	16.0.R1

monitor-oper-group

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Enter the monitor-oper-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **monitor-oper-group**
Description	Operational group name
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

priority-step *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **monitor-oper-group**
Description	Value with which the group priority increases or decreases if the state of this messaging-SAP changes.
Range	1 to 10
Introduced	16.0.R1

one-garp-per-sap *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Send one gratuitous ARP to each SAP
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	VRRP priority control policy associated with the SRRP
Reference	configure **vrrp policy** *number*
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

preempt *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Allow the SRRP instance to override an existing master
Default	true
Introduced	16.0.R1

priority *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Priority for this interface at this level
Range	1 to 254
Default	100
Introduced	16.0.R1

send-fib-population-packets *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Mode used to send FIB population packets (such as ARP) on switchover
Default	all
Options	all, outer-tag-only
Introduced	16.0.R1

suppress-aa-sub *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enable application assurance suppression for ESM subscribers
Default	false
Introduced	16.0.R1

tos-marking-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	TOS marking state
Default	untrusted
Options	trusted, untrusted
Introduced	16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Group interface type
Default	plain
Options	plain, lns, wlan-gw, gtp, bonding
Introduced	16.0.R1

wlan-gw

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the wlan-gw context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Administrative state of WLAN Gateway on this group interface

Default disable

Options enable, disable

Introduced 16.0.R1

gateway-address [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Enter the gateway-address context

Max. Elements 10

Introduced 16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description The IP address of the WLAN Gateway tunnel function of this system on this group interface

Introduced 16.0.R1

Notes This element is part of a list key

purpose

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the purpose context

Introduced 16.0.R1

xconnect *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **purpose**

Description Use tunnel IP address for crosse-connect traffic

Default false

Introduced 16.0.R1

gateway-router *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description The routing instance where the tunneled UE traffic is routed, or empty to specify that the routing instance corresponding to the service containing this interface is used.

Introduced 16.0.R1

l2-ap

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Enter the l2-ap context

Introduced 16.0.R1

access-point [sap-id] *sap*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap**

Description Enter the access-point context

Introduced 16.0.R1

[sap-id] *sap*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*

Description SAP ID for the Layer 2 access point

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*

Description Administrative state of this access point

Default disable

Options enable, disable

Introduced 16.0.R1

encap-type *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*

Description Service encapsulation type of this access point

Options null, dot1q, qinq

Introduced 16.0.R1

epipe-sap-template *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*

Description Parameters template for the internal connections with the ISA cards

Reference configure **service template epipe-sap-template** *string*

Introduced 16.0.R1

auto-sub-id-fmt *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap**
Description	Format of the auto-generated subscriber ID
Default	include-ap-tags
Options	include-ap-tags, sap-only
Introduced	16.0.R1

default-encap-type *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap**
Description	Default encapsulation type for Layer 2 access points
Default	null
Options	null, dot1q, qinq
Introduced	16.0.R1

lanext

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the lanext context
Introduced	16.0.R1

max-bd *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw lanext**
Description	Maximum number of bridge domains
Range	1 to 131071
Default	131071
Introduced	16.0.R1

learn-ap-mac

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the learn-ap-mac context
Introduced	16.0.R1

delay-auth *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw learn-ap-mac**
Description	Delay authentication until ARP/ND is answered or timed out, after which AP MAC can be included
Default	false
Introduced	16.0.R1

mobility

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the mobility context
Introduced	16.0.R1

hold-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Minimum time between two mobility events for a single UE
Range	0 to 255
Default	5
Units	seconds
Introduced	16.0.R1

inter-tunnel-type *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Enable mobility between terminating tunnel types
Default	false
Introduced	16.0.R1

inter-vlan *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Enable mobility within different VLANs within the same range of VLAN Q-tags
Default	false
Introduced	16.0.R1

trigger

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Enter the trigger context
Introduced	16.0.R1

control *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility trigger**
Description	Use control traffic (DHCP, DHCPv6, and ICMPv6-RS messages) as mobility trigger
Default	false
Introduced	16.0.R1

data *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility trigger**

Description Use data traffic as mobility trigger

Default false

Introduced 16.0.R1

iapp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility trigger**

Description Use Inter Access Point Protocol (IAPP) messages as mobility trigger

Default false

Introduced 16.0.R1

oper-down-on-group-degrade *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Bring interface operationally down when its ISA WLAN Gateway becomes degraded

Default false

Introduced 16.0.R1

tcp-mss-adjust *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Value for the TCP Maximum Segment Size (MSS) option if not present, or if value is higher

Range 160 to 10240

Units bytes

Introduced 16.0.R1

tunnel-egress-qos

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Enter the tunnel-egress-qos context

Introduced 16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Administrative state of egress QoS
Default	disable
Options	enable, disable
Introduced	16.0.R1

agg-rate-limit (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Aggregate rate limit of each shaper associated with this interface
Default	max
Introduced	16.0.R1

granularity *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Granularity of the egress shaping for WLAN Gateway
Default	per-tunnel
Options	per-tunnel, per-retailer
Introduced	16.0.R1

hold-time (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Minimum time that the egress QoS resources associated with a tunnel (such as a shaper) are held
Range	1 to 86400
Units	seconds
Options	infinite
Introduced	16.0.R1

multi-client-only *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Tunnel traffic to shape when multiple UEs use this tunnel
Default	false
Introduced	16.0.R1

qos *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Identifier of the egress QoS policy associated with each tunnel of this interface
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

scheduler-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Identifier of the egress scheduler policy associated with each tunnel of this interface
Reference	configure **qos scheduler-policy** *string*
Introduced	16.0.R1

tunnel-encaps

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the tunnel-encaps context
Introduced	16.0.R1

learn-l2tp-cookie (*keyword* | *string*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-encaps**
Description	System that learns the cookie from L2TP tunnels terminating on this interface
String Length	6
Default	never
Options	never, always
Introduced	16.0.R1

vlan-range [range] *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the vlan-range context
Introduced	16.0.R1

[range] *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	IEEE 802.1q VLAN tag range
Introduced	16.0.R1
Notes	This element is part of a list key

authentication

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Enter the authentication context

Introduced 16.0.R1

hold-time *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**

Description Minimum time to hold a UE down after an authentication failure

Range 0 to 3600

Default 5

Units seconds

Introduced 16.0.R1

on-control-plane *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**

Description Trigger authentication on first control plane packet instead of first data packet

Default false

Introduced 16.0.R1

policy *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**

Description RADIUS policy for authentication

Reference configure **aaa radius isa-policy** *string*

Introduced 16.0.R1

vlan-mismatch-timeout *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**
Description	Timeout value for the RADIUS proxy cache if a packet is received with a non-matching VLAN
Range	5 to 60
Units	seconds
Introduced	16.0.R1

data-triggered-ue-creation

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the data-triggered-ue-creation context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation**
Description	Administrative state of data triggered UE authentication
Default	disable
Options	enable, disable
Introduced	16.0.R1

create-proxy-cache-entry

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation**
Description	Enter the create-proxy-cache-entry context
Introduced	16.0.R1

mac-format *mac-specification*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry**
Description	MAC address format
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

proxy-server

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry**
Description	Enter the proxy-server context
Introduced	16.0.R1

name *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry proxy-server**
Description	RADIUS Proxy server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

router-instance *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry proxy-server**
Description	The router instance of the RADIUS Proxy server.
Introduced	16.0.R1
Notes	This element is mandatory

dhcp4

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the dhcp4 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**
Description	Administrative state of the DHCPv4 protocol
Default	disable
Options	enable, disable
Introduced	16.0.R1

dns *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**
Description	DNS servers signaled in DHCP
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

l2-aware-ip-address (*string* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**
Description	IPv4 address for migrant or DSM Ues
Options	from-pool
Introduced	16.0.R1

lease-time

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**
Description	Enter the lease-time context
Introduced	16.0.R1

active *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4 lease-time**
Description	IP address lease time for the UE after successful (portal) authentication
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

initial *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4 lease-time**
Description	IP address lease time that is provided before and during (portal) authentication to the UE
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

nbns *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**
Description	NetBIOS servers signaled in DHCP
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

dhcp6

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the dhcp6 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6**
Description	Administrative state of this protocol
Default	disable
Options	enable, disable
Introduced	16.0.R1

preferred-lifetime

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6**
Description	Enter the preferred-lifetime context
Introduced	16.0.R1

active *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 preferred-lifetime**
Description	Preferred signaled lifetime after full authentication
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

initial *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 preferred-lifetime**
Description	Preferred signaled lifetime when the UE is not fully authenticated
Range	300 to 3600
Default	300
Units	seconds
Introduced	16.0.R1

valid-lifetime

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6**

Description Enter the valid-lifetime context

Introduced 16.0.R1

active *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 valid-lifetime**

Description Signaled valid lifetime after full authentication

Range 300 to 3600

Default 600

Units seconds

Introduced 16.0.R1

initial *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 valid-lifetime**

Description Valid signaled lifetime when the UE is not fully authenticated

Range 300 to 3600

Default 300

Units seconds

Introduced 16.0.R1

dsm

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Enter the dsm context

Introduced 16.0.R1

accounting-policy *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	ISA Radius Policy for accounting
Reference	configure **aaa radius isa-policy** *string*
Introduced	16.0.R1

accounting-update

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	Enter the accounting-update context
Introduced	16.0.R1

interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm accounting-update**
Description	Time interval between consecutive Interim accounting update messages
Range	5 to 259200
Units	minutes
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	Administrative state of DSM
Default	disable
Options	enable, disable
Introduced	16.0.R1

egress

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	Enter the egress context
Introduced	16.0.R1

policer *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm egress**

Description Policer for egress traffic

Reference configure **subscriber-mgmt isa-policer** *string*

Introduced 16.0.R1

ingress

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**

Description Enter the ingress context

Introduced 16.0.R1

ip-filter *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm ingress**

Description Filter for ingress traffic

Reference configure **subscriber-mgmt isa-filter** *string*

Introduced 16.0.R1

policer *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm ingress**

Description Policer for ingress traffic

Reference configure **subscriber-mgmt isa-policer** *string*

Introduced 16.0.R1

one-time-redirect

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**

Description Enter the one-time-redirect context

Introduced 16.0.R1

port *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm one-time-redirect**
Description	Destination port of packets considered for HTTP redirect
Range	1 to 65535
Default	80
Introduced	16.0.R1

url *one-time-http-redirect-url*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm one-time-redirect**
Description	URL for redirected HTTP protocol packets that can be overridden by AAA
Introduced	16.0.R1

http-redirect-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Default HTTP redirect policy for portal authentication
Reference	configure **subscriber-mgmt http-redirect-policy** *string*
Introduced	16.0.R1

idle-timeout-action *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Action to perform when the idle timeout expires
Default	remove
Options	remove, shcv
Introduced	16.0.R1

l2-service

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the l2-service context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **l2-service**
Description	Administrative state of the Layer 2 service
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **l2-service**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

service *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **l2-service**
Description	Layer 2 service associated with this range
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory

nat-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	NAT policy for DSM and ISA portal authentication
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

retail-service *service-name*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Default retail service for new UEs in this range
String Length	1 to 64
Introduced	16.0.R1

slaac

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the slaac context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac**
Description	Administrative state of this protocol
Default	disable
Options	enable, disable
Introduced	16.0.R1

preferred-lifetime

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac**
Description	Enter the preferred-lifetime context
Introduced	16.0.R1

active *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac preferred-lifetime**
Description	Preferred signaled lifetime after full authentication
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

initial *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac preferred-lifetime**
Description	Preferred signaled lifetime when the UE is not fully authenticated
Range	300 to 3600
Default	300
Units	seconds
Introduced	16.0.R1

valid-lifetime

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac**
Description	Enter the valid-lifetime context
Introduced	16.0.R1

active *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac valid-lifetime**
Description	Signaled valid lifetime after full authentication
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

initial *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac valid-lifetime**
Description	Valid signaled lifetime when the UE is not fully authenticated
Range	300 to 3600
Default	300
Units	seconds
Introduced	16.0.R1

vrgw

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the vrgw context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw**
Description	Administrative state of VRGW
Default	disable
Options	enable, disable
Introduced	16.0.R1

brg

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw**
Description	Enter the brg context
Introduced	16.0.R1

authenticated-brg-only *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw brg**
Description	Only allow hosts from BRGs pre-authenticated using the radius-proxy
Default	false
Introduced	16.0.R1

default-brg-profile *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw brg**
Description	Default BRG profile to use if the AAA server does not specify one
Reference	configure **subscriber-mgmt vrgw brg-profile** *string*
Introduced	16.0.R1

lanext

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw**
Description	Enter the lanext context
Introduced	16.0.R1

access

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Enter the access context
Introduced	16.0.R1

max-mac *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext access**
Description	Maximum number of MAC entries in bridged domain from access side
Range	1 to 128
Default	20
Introduced	16.0.R1

multi-access *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext access**
Description	Allow multiple access points
Default	false
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Administrative state of HLE
Default	disable
Options	enable, disable
Introduced	16.0.R1

assistive-address-resolution *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	ISA assists in address resolution
Default	false
Introduced	16.0.R1

bd-mac-prefix *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Prefix from which BD MACs for MAC translation are derived
String Length	8
Introduced	16.0.R1

mac-translation *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Hide MAC address of home host by translating it to BD MAC
Default	false
Introduced	16.0.R1

network

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Enter the network context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext network**
Description	Administrative state of network
Default	enable
Options	enable, disable
Introduced	16.0.R1

max-mac *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext network**
Description	Maximum number of MAC entries in bridged domain from network side
Range	1 to 64
Default	20
Introduced	16.0.R1

xconnect

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the xconnect context
Introduced	16.0.R1

accounting

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect**
Description	Enter the accounting context
Introduced	16.0.R1

mobility-updates *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect accounting**
Description	Accounting updates triggered by mobility
Default	false
Introduced	16.0.R1

policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect accounting**
Description	ISA RADIUS accounting policy for cross-connected UEs
Reference	configure **aaa radius isa-policy** *string*
Introduced	16.0.R1

update-interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect accounting**
Description	Time between consecutive Interim accounting update messages
Range	5 to 259200
Units	minutes
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect**
Description	Administrative state of the cross-connect
Default	disable
Options	enable, disable
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Identifier of the WLAN Gateway ISA group to terminate UEs for this group interface
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

wpp

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the wpp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Administrative state of WPP
Default	disable
Options	enable, disable
Introduced	16.0.R1

initial

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Enter the initial context
Introduced	16.0.R1

sla-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp initial**

Description Initial SLA profile

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp initial**

Description Initial subscriber profile

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

lease-time *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**

Description Lease time

Range 10 to 315446399

Default 600

Introduced 16.0.R1

portal

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**

Description Enter the portal context

Introduced 16.0.R1

name *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp portal**
Description	Name for the WPP portal of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

portal-group *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp portal**
Description	WPP portal group for this interface
Reference	configure **aaa wpp portal-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp portal**
Description	The virtual router instance of the WPP portal for this interface
Introduced	16.0.R1
Notes	This element is part of a choice

restore-to-initial-on-disconnect *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Restore initial profiles after a host has disconnected
Default	true
Introduced	16.0.R1

triggered-hosts *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Enable/disable triggered hosts
Default	false
Introduced	16.0.R1

user-db *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	User database
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

hold-time

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Enter the hold-time context
Introduced	16.0.R1

ipv4

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time**
Description	Enter the ipv4 context
Introduced	16.0.R1

down

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4**
Description	Enter the down context
Introduced	16.0.R1

init-only *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4 down**
Description	Apply down delay only when interface is configured or after reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4 down**
Description	Down hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4 up**
Description	Up hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

ipv6

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time**
Description	Enter the ipv6 context
Introduced	16.0.R1

down

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6 down**

Description Apply hold time only when IP interface is first configured or after system reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6 down**

Description Down hold time for the IPv6 interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

up

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6**

Description Enter the up context

Introduced 16.0.R1

seconds *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6 up**

Description Up hold time for the IPv6 interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

ipoe-linking

Context **configure service ies** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipoe-linking context

Introduced 16.0.R1

gratuitous-router-advertisement *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipoe-linking**

Description Send unsolicited router advertisement after DHCP setup

Default false

Introduced 16.0.R1

ipoe-session

Context **configure service ies** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipoe-session context

Introduced 16.0.R1

session-limit *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipoe-session**

Description Maximum number of sessions on this group interface

Range 1 to 500000

Introduced 16.0.R1

ipv4

Context **configure service ies** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipv4 context

Introduced 16.0.R1

address [ipv4-address] *ipv4-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4**

Description Enter the address context

Introduced 16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	IP address or IP subnet applied to interface
Introduced	16.0.R1
Notes	This element is part of a list key

gateway *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	Separate IP address within the subnet for SRRP routing purposes
Introduced	16.0.R1

holdup-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	Time for the route before it accepts the new state attribute
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

populate-host-routes *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	Populate subscriber host routes in local FIB
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

allow-unmatching-subnets *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Allow subscriber hosts without a matching subnet
Default	false
Introduced	16.0.R1

default-dns *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Default DNS server addresses
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

dhcp

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Enter the dhcp context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Administratively enable/disable DHCP.

Default enable

Options enable, disable

Introduced 16.0.R4

client-applications

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the client-applications context

Introduced 16.0.R4

dhcp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable DHCP as client application.

Default true

Introduced 16.0.R4

ppp *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable PPP as client application.

Default false

Introduced 16.0.R4

description *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Add/remove a text description for DHCP.

String Length 1 to 80

Introduced 16.0.R4

gi-address *ipv4-unicast-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Configure the gateway interface address for the DHCP relay.

Introduced 16.0.R4

lease-populate

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

max-leases *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp lease-populate**

Description The maximum number of DHCPv4 leases.

Range 0 to 511999

Introduced 16.0.R4

option-82

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the option-82 context

Introduced 16.0.R4

vendor-specific-option

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the vendor-specific-option context

Introduced 16.0.R4

client-mac-address *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Enter the proxy-server context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server**
Description	Administratively enable/disable DHCP proxy.
Default	disable
Options	enable, disable
Introduced	16.0.R1

emulated-server *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server**
Description	IP address used as the DHCP server address in the context of this service
Introduced	16.0.R1

lease-time

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server**
Description	Enter the lease-time context
Introduced	16.0.R1

radius-override *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	Use lease time information provided by RADIUS server
Default	false
Introduced	16.0.R1

value *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	DHCP lease time
Range	300 to 315446399
Units	seconds
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Python policy.
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

relay-proxy

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Enter the relay-proxy context
Introduced	16.0.R1

release-update-src-ip *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify whether or not to relay release messages.
Default	false
Introduced	16.0.R4

siaddr-override *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify the IP address to use.
Introduced	16.0.R4

server *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

virtual-subnet *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable virtual subnetting.
Default	false
Introduced	16.0.R4

export-host-routes *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Allow export of subscriber management host routes
Default	false
Introduced	16.0.R1

unnumbered

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Enter the unnumbered context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 unnumbered**
Description	IP address of the interface
Introduced	16.0.R1
Notes	This element is part of a choice

ip-int-name *interface-name*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv4 unnumbered**
Description	Interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Enter the ipv6 context
Introduced	16.0.R1

address [ipv6-address] *ipv6-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the address context
Introduced	16.0.R1

[ipv6-address] *ipv6-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

holdup-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Configures the time to wait, in milliseconds, for the route before it accepts the new state attribute.
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

host-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Host type for subscriber interface addresses or prefixes
Options	pd, wan, pd-wan
Introduced	16.0.R1

prefix-length *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address prefix length
Range	0 to 128
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

allow-multiple-wan-addresses *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Configure if the interface will accept multiple WAN addresses.
Default	false
Introduced	16.0.R4

allow-unmatching-prefixes *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Allow subscriber hosts without a matching prefix
Default	false
Introduced	16.0.R1

default-dns *ipv6-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Default DNS server addresses
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

delegated-prefix-length (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	IPv6 delegated prefix length
Range	48 to 64
Default	64
Options	variable
Introduced	16.0.R1

dhcp6

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the dhcp6 context
Introduced	16.0.R1

override-slaac *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Allow WAN address offered by DHCP to overwrite the WAN address acquired from SLAAC
Default	false
Introduced	16.0.R1

pd-managed-route

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the pd-managed-route context
Introduced	16.0.R1

next-hop *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 pd-managed-route**
Description	Next hop type
Default	ipv6
Options	ipv4, ipv6
Introduced	16.0.R1

proxy-server

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the proxy-server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Administrative state of DHCPv6 proxy server
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Enter the client-applications context
Introduced	16.0.R1

dhcp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**
Description	Allow the DHCP application to use DHCP relay functionality
Default	true
Introduced	16.0.R1

ppp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**
Description	Allow the PPP application to use DHCP relay functionality
Default	false
Introduced	16.0.R1

preferred-lifetime *dhcp6-prefix-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Time for prefix to remain preferred on this interface
Default	3600
Introduced	16.0.R1

rebind-timer *dhcp6-rebind-timer*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Rebind timer (T2) for this interface
Range	0 to 1209600
Introduced	16.0.R1

renew-timer *dhcp6-renew-timer*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Renew timer (T1)
Range	0 to 604800
Introduced	16.0.R1

server-id

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Enter the server-id context
Introduced	16.0.R1

duid-en-ascii *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as an ASCII string
String Length	1 to 58
Introduced	16.0.R1
Notes	This element is part of a choice

duid-en-hex *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as a hexadecimal string
String Length	1 to 118
Introduced	16.0.R1
Notes	This element is part of a choice

duid-ll

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Use link-layer address (DUID-LL) as DUID
Introduced	16.0.R1
Notes	This element is part of a choice

valid-lifetime *dhcp6-prefix-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Time for prefix to remain valid on this interface
Default	86400
Introduced	16.0.R1

python-policy *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

relay

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the relay context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Administrative state of DHCvP6 relay
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Enter the client-applications context
Introduced	16.0.R1

dhcp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay client-applications**
Description	Allow the DHCP application to use DHCP relay functionality
Default	true
Introduced	16.0.R1

ppp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay client-applications**
Description	Allow the PPP application to use DHCP relay functionality
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

link-address *ipv6-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Link address for the DHCPv6 relay messages
Introduced	16.0.R1

server *ipv6-address-with-zone*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	DHCP6 server(s) to which the DHCP6 requests are forwarded
Max. Elements	8
Introduced	16.0.R1
Notes	This element is ordered by user

source-address *ipv6-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Source IPv6 address for the DHCPv6 relay messages
Introduced	16.0.R1

ipoe-bridged-mode *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enable/Disable IPv6 IPoE Bridged Mode.
Default	false
Introduced	16.0.R4

link-local-address

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the link-local-address context
Introduced	16.0.R1

address *ipv6-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 link-local-address**
Description	Link local address
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	IPv6 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

holdup-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	Configures the time to wait, in milliseconds, for the route before it accepts the new state attribute.
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

host-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	Host type for subscriber interface addresses or prefixes
Options	pd, wan, pd-wan
Introduced	16.0.R1

track-srrp *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

router-advertisements

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the router-advertisements context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Administrative state of router advertisement
Default	disable
Options	enable, disable
Introduced	16.0.R1

force-mcast *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Send router advertisement to a multicast address instead of unicast for IPoE
Options	ip, ip-mac
Introduced	16.0.R1

max-advertisement-interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Maximum advertisement interval
Range	900 to 1800
Default	1800
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Minimum advertisement interval
Range	900 to 1350
Default	900
Units	seconds
Introduced	16.0.R1

options

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Enter the options context
Introduced	16.0.R1

current-hop-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Hop limit to be advertised
Range	0 to 255
Default	64
Introduced	16.0.R1

dns

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**

Description Enter the dns context

Introduced 16.0.R1

include-rdnss *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options dns**

Description Include the RDNSS server option 25

Default false

Introduced 16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options dns**

Description Maximum time for the RDNSS address to remain valid

Range 900 to 3600

Default 3600

Units seconds

Options infinite

Introduced 16.0.R1

managed-configuration *boolean*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**

Description Managed address configuration flag

Default false

Introduced 16.0.R1

mtu (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Advertised MTU value
Range	1280 to 9212
Default	not-included
Units	bytes
Options	not-included
Introduced	16.0.R1

other-stateful-configuration *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Other stateful configuration flag
Default	false
Introduced	16.0.R1

reachable-time *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery reachable time that is advertised for this group interface
Range	0 to 3600000
Default	0
Units	milliseconds
Introduced	16.0.R1

retransmit-timer *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery retrasnmit timer that is advertised for this group interface
Range	0 to 1800000
Default	0
Units	seconds
Introduced	16.0.R1

router-lifetime (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Router lifetime
Range	2700 to 9000
Default	4500
Units	seconds
Options	no-default-router
Introduced	16.0.R1

prefix-options

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Enter the prefix-options context
Introduced	16.0.R1

autonomous *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Value of the autonomous flag
Default	false
Introduced	16.0.R1

on-link *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Assign the prefix to an interface on the specified link
Default	true
Introduced	16.0.R1

preferred-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain preferred
Default	3600
Units	seconds
Introduced	16.0.R1

valid-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain valid
Default	86400
Units	seconds
Introduced	16.0.R1

router-solicit

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the router-solicit context
Introduced	16.0.R1

inactivity-timer (*number* | *keyword*)

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **ipv6 router-solicit**
Description	Timebefore an inactive host is removed
Range	1 to 31536000
Default	300
Units	seconds
Options	infinite
Introduced	16.0.R1

local-address-assignment

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Enter the local-address-assignment context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment**
Description	Administrative state of local address assignment
Default	disable
Options	enable, disable
Introduced	16.0.R1

ipv4

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment**
Description	Enter the ipv4 context
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4**
Description	Enter the client-applications context
Introduced	16.0.R1

ppp *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4 client-applications**
Description	Request local addresses for PPP IPCP hosts
Default	false
Introduced	16.0.R1

default-pool *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4**
Description	Default pools
String Length	1 to 32
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

server *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4**
Description	Local DHCP server that contains pools for local address assignment
Reference	configure **router** *string* **dhcp-server dhcpv4** *string*
Introduced	16.0.R1

ipv6

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment**
Description	Enter the ipv6 context
Introduced	16.0.R1

client-applications

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6**
Description	Enter the client-applications context
Introduced	16.0.R1

ipoe-slaac *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6 client-applications**
Description	Request local addresses for IPoE SLAAC hosts
Default	false
Introduced	16.0.R1

ipoe-wan *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6 client-applications**
Description	Request local addresses for IPoE IA NA hosts
Default	false
Introduced	16.0.R1

ppp-slaac *boolean*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6 client-applications**
Description	Request local addresses for PPP SLAAC hosts
Default	false
Introduced	16.0.R1

server *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6**
Description	Local DHCPv6 server that contains pools for local address assignment
Reference	configure **router** *string* **dhcp-server dhcpv6** *string*
Introduced	16.0.R1

pppoe

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Enter the pppoe context
Introduced	16.0.R1

description *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **pppoe**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

session-limit *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **pppoe**
Description	Maximum PPPoE sessions
Range	1 to 262143
Default	1
Introduced	16.0.R1

wan-mode *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	The mode of operation for hosts that have a /128 WAN IPv6 address.
Default	mode64
Options	mode64, mode128
Introduced	16.0.R4

wlan-gw

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name*
Description	Enter the wlan-gw context
Introduced	16.0.R1

pool-manager

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw**
Description	Enter the pool-manager context
Introduced	16.0.R1

dhcp6-client

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager**
Description	Enter the dhcp6-client context
Introduced	16.0.R1

dhcpv4-nat

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Enter the dhcpv4-nat context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client dhcpv4-nat**

Description Administrative state of the considered DHCPv6 client

Default disable

Options enable, disable

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client dhcpv4-nat**

Description The IPv6-address that should be included in the link-address field of the relay header.

Default ::

Introduced 16.0.R4

pool-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client dhcpv4-nat**

Description Pool name to be sent in the DHCPv6 messages

String Length 1 to 32

Introduced 16.0.R1

ia-na

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Enter the ia-na context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client ia-na**
Description	Administrative state of the considered DHCPv6 client
Default	disable
Options	enable, disable
Introduced	16.0.R1

link-address *ipv6-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client ia-na**
Description	The IPv6-address that should be included in the link-address field of the relay header.
Default	::
Introduced	16.0.R4

pool-name *string*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client ia-na**
Description	Pool name to be sent in the DHCPv6 messages
String Length	1 to 32
Introduced	16.0.R1

lease-query

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**
Description	Enter the lease-query context
Introduced	16.0.R1

max-retries *number*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client lease-query**
Description	Maximum number of retries before the lease query assumes that no existing subnets were allocated
Range	0 to 10
Default	2
Introduced	16.0.R1

servers *ipv6-unicast-address*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**
Description	DHCPv6 servers that are used for requesting addresses
Max. Elements	8
Introduced	16.0.R1

slaac

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**
Description	Enter the slaac context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client slaac**
Description	Administrative state of the considered DHCPv6 client
Default	disable
Options	enable, disable
Introduced	16.0.R1

link-address *ipv6-address*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client slaac**

Description The IPv6-address that should be included in the link-address field of the relay header.

Default ::

Introduced 16.0.R4

pool-name *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client slaac**

Description Pool name to be sent in the DHCPv6 messages

String Length 1 to 32

Introduced 16.0.R1

source-ip (*keyword* | *string*)

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Source IP address that is used by the DHCPv6 client

Default use-interface-ip

Options use-interface-ip

Introduced 16.0.R1

watermarks

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager**

Description Enter the watermarks context

Introduced 16.0.R1

high *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager watermarks**

Description New prefix that is used when the ISA level reaches high watermark

Range 51 to 99

Default 95

Introduced 16.0.R1

low *number*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager watermarks**

Description Prefix that is released if the usage level without this prefix is below the low watermark

Range 50 to 98

Default 90

Introduced 16.0.R1

wlan-gw-group *string*

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager**

Description Identifier of the WLAN Gateway ISA group on which the prefixes are installed

Reference configure **isa wlan-gw-group** *number*

Introduced 16.0.R1

redundancy

Context **configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw**

Description Enter the redundancy context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw redundancy**
Description	Administrative state of redundancy
Default	disable
Options	enable, disable
Introduced	16.0.R1

export *ipv4-unicast-prefix*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw redundancy**
Description	Route to export to peer
Introduced	16.0.R1

monitor *ipv4-unicast-prefix*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ies** *service-name* **subscriber-interface** *interface-name* **wlan-gw redundancy**
Description	Peer route to monitor
Introduced	16.0.R1

video-interface [interface-name] *interface-name*

Context	**configure service ies** *service-name*
Description	Enter the video-interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Interface name
String Length	1 to 29
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Accounting Policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

address [ip-address] *ipv4-prefix-with-host-bits*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Enter the address context
Max. Elements	16
Introduced	16.0.R1

[ip-address] *ipv4-prefix-with-host-bits*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **address** *ipv4-prefix-with-host-bits*
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

adi

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Enter the adi context
Introduced	16.0.R1

scte30

Context	**configure service ies** *service-name* **video-interface** *interface-name* **adi**
Description	Enter the scte30 context
Introduced	16.0.R1

ad-server [address] *ipv4-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **adi scte30**
Description	Enter the ad-server context
Max. Elements	4
Introduced	16.0.R1

[address] *ipv4-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **adi scte30 ad-server** *ipv4-address*
Description	Ad server address
Introduced	16.0.R1
Notes	This element is part of a list key

local-address

Context	**configure service ies** *service-name* **video-interface** *interface-name* **adi scte30**
Description	Enter the local-address context
Introduced	16.0.R1

control *ipv4-unicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **adi scte30 local-address**
Description	Control
Introduced	16.0.R1
Notes	This element is mandatory

data *ipv4-unicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **adi scte30 local-address**
Description	Data
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Administrative state of the video interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

channel [mcast-address] *ipv4-multicast-address* **source** *ipv4-unicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Enter the channel context
Introduced	16.0.R1

[mcast-address] *ipv4-multicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Multicast channel address
Introduced	16.0.R1
Notes	This element is part of a list key

source *ipv4-unicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Unicast source address
Introduced	16.0.R1
Notes	This element is part of a list key

channel-name *string*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	max 32 chars.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

scte35-action *keyword*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Enable/disable forwarding scte 35 cue avails.
Default	forward
Options	forward, drop
Introduced	16.0.R1

zone-channel [zone-mcast-address] *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Enter the zone-channel context
Introduced	16.0.R1

[zone-mcast-address] *ipv4-multicast-address*

Context **configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address* **zone-channel** *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*

Description Multicast zone channel address

Introduced 16.0.R1

Notes This element is part of a list key

zone-source *ipv4-unicast-address*

Context **configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address* **zone-channel** *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*

Description Unicast source address

Introduced 16.0.R1

Notes This element is part of a list key

adi-channel-name *string*

Context **configure service ies** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address* **zone-channel** *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*

Description max 32 chars.

String Length 1 to 32

Introduced 16.0.R1

cpu-protection *string*

Context **configure service ies** *service-name* **video-interface** *interface-name*

Description CPU protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R1

description *string*

Context **configure service ies** *service-name* **video-interface** *interface-name*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

multicast-service *number*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Service ID of the associated multicast service.
Range	1 to 2147483647
Introduced	16.0.R1

output-format *keyword*

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Output format
Default	rtp-udp
Options	udp, rtp-udp
Introduced	16.0.R1

rt-client

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Enter the rt-client context
Introduced	16.0.R1

src-address *ipv4-unicast-address*

Context	**configure service ies** *service-name* **video-interface** *interface-name* **rt-client**
Description	An IP address for the RT client.
Introduced	16.0.R3
Notes	This element is mandatory

video-sap

Context	**configure service ies** *service-name* **video-interface** *interface-name*
Description	Enter the video-sap context
Introduced	16.0.R1

egress

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap**

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap egress filter**

Description ID for the IP filter policy

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap egress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap egress qos**

Description SAP-egress QoS policy

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

ingress

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap**

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap ingress filter**

Description ID for the IP filter policy

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap ingress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap ingress qos**

Description SAP-ingress QoS policy

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R1

video-group-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service ies** *service-name* **video-interface** *interface-name* **video-sap**

Description Group id for the video interface.

Reference configure **isa video-group** *number*

Introduced 16.0.R1

Notes This element is mandatory

vpn-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service ies** *service-name*
Description	VPN identifier for the service
Range	1 to 2147483647
Introduced	16.0.R1

ipfix

Context	**configure service**
Description	Enter the ipfix context
Introduced	16.0.R1

export-policy [name] *string*

Context	**configure service ipfix**
Description	Enter the export-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure service ipfix export-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

collector router-instance *string* **ip-address** *ipv4-unicast-address*

Context	**configure service ipfix export-policy** *string*
Description	Enter the collector context
Introduced	16.0.R1

router-instance *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ipfix export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Router where the collector is reached
Introduced	16.0.R1
Notes	This element is part of a list key

ip-address *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ipfix export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	IPv4 address of the collector
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ipfix export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Administrative state of the collector
Default	disable
Options	enable, disable
Introduced	16.0.R1

mtu *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ipfix export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Maximum Transmission Unit
Range	512 to 9212
Default	1500
Introduced	16.0.R1

refresh-timeout *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ipfix export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	IPFIX template refresh time
Range	240 to 86400
Default	600
Units	seconds
Introduced	16.0.R1

source-ip-address *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service ipfix export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Source IP address used in communication towards the collector
Introduced	16.0.R1

description *string*

Context	**configure service ipfix export-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

template-format *keyword*

Context	**configure service ipfix export-policy** *string*
Description	Template format used by this IPFIX export policy
Default	format1
Options	format1, format2
Introduced	16.0.R1

md-auto-id

Context	**configure service**
Description	Enter the md-auto-id context
Introduced	16.0.R1

customer-id-range

Context	**configure service md-auto-id**
Description	Enter the customer-id-range context
Introduced	16.0.R1

end *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service md-auto-id customer-id-range**
Description	Upper value of the ID range, must be greater than or equal to start value
Range	2 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

start *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service md-auto-id customer-id-range**
Description	Lower value of the ID range, must be less than or equal to end value
Range	2 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

pw-template-id-range

Context	**configure service md-auto-id**
Description	Enter the pw-template-id-range context
Introduced	16.0.R1

end *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service md-auto-id pw-template-id-range**
Description	Upper value of the ID range, must be greater than or equal to start value
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

start *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service md-auto-id pw-template-id-range**
Description	Lower value of the ID range, must be less than or equal to end value
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

service-id-range

Context	**configure service md-auto-id**
Description	Enter the service-id-range context
Introduced	16.0.R1

end *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service md-auto-id service-id-range**
Description	Upper value of the ID range, must be greater than or equal to start value
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service md-auto-id service-id-range**
Description	Lower value of the ID range, must be less than or equal to end value
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

nat

Context	**configure service**
Description	Enter the nat context
Introduced	16.0.R1

classifier [name] *string*

Context	**configure service nat**
Description	Enter the classifier context
Max. Elements	8
Introduced	16.0.R1

[name] *string*

Context	**configure service nat classifier** *string*
Description	The name that identifies this NAT classifier
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

default

Context	**configure service nat classifier** *string*
Description	Enter the default context
Introduced	16.0.R1

action

Context	**configure service nat classifier** *string* **default**
Description	Enter the action context
Introduced	16.0.R1

dnat

Context	**configure service nat classifier** *string* **default action**
Description	Default destination IP address for DNAT action
Introduced	16.0.R1
Notes	This element is part of a choice

dnat-ip-address *ipv4-unicast-address*

Context	**configure service nat classifier** *string* **default action**
Description	Substitute IP address for the destination IP address of the packets matching this classifier
Introduced	16.0.R1
Notes	This element is part of a choice

forward

Context	**configure service nat classifier** *string* **default action**
Description	Forward mode of operation
Introduced	16.0.R1
Notes	This element is part of a choice

dnat-ip-address *ipv4-unicast-address*

Context	**configure service nat classifier** *string* **default**
Description	Default destination IP address for matching entries with dNAT action
Introduced	16.0.R1

description *string*

Context	**configure service nat classifier** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure service nat classifier** *string*
Description	Enter the entry context
Max. Elements	32
Introduced	16.0.R1

[id] *number*

Context	**configure service nat classifier** *string* **entry** *number*
Description	Classifier rule ID
Range	1 to 1000
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context	**configure service nat classifier** *string* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

dnat

Context	**configure service nat classifier** *string* **entry** *number* **action**
Description	Destination-NAT mode of operation
Introduced	16.0.R1
Notes	This element is part of a choice

dnat-ip-address *ipv4-unicast-address*

Context	**configure service nat classifier** *string* **entry** *number* **action**
Description	Substitute IP address for the destination IP address of the packets matching this classifier
Introduced	16.0.R1
Notes	This element is part of a choice

forward

Context **configure service nat classifier** *string* **entry** *number* **action**

Description Forward mode of operation

Introduced 16.0.R1

Notes This element is part of a choice

description *string*

Context **configure service nat classifier** *string* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure service nat classifier** *string* **entry** *number*

Description Enter the match context

Introduced 16.0.R1

dst-port-range

Context **configure service nat classifier** *string* **entry** *number* **match**

Description Enter the dst-port-range context

Introduced 16.0.R1

end *number*

Context **configure service nat classifier** *string* **entry** *number* **match dst-port-range**

Description End port number

Range 0 | 1 to 65535

Default 65535

Introduced 16.0.R1

start *number*

Context	**configure service nat classifier** *string* **entry** *number* **match dst-port-range**
Description	Start of port number
Range	0 | 1 to 65535
Default	0
Introduced	16.0.R1

protocol *keyword*

Context	**configure service nat classifier** *string* **entry** *number* **match**
Description	IP protocol to match
Options	tcp, udp
Introduced	16.0.R1

deterministic-script

Context	**configure service nat**
Description	Enter the deterministic-script context
Introduced	16.0.R1

location *ftp-tftp-url*

Context	**configure service nat deterministic-script**
Description	URL for the generated script.
String Length	1 to 180
Introduced	16.0.R4

firewall-policy [name] *external-named-item*

Context	**configure service nat**
Description	Enter the firewall-policy context
Max. Elements	2048
Introduced	16.0.R1

[name] *external-named-item*

Context	**configure service nat firewall-policy** *external-named-item*
Description	Firewall policy name
Introduced	16.0.R1
Notes	This element is part of a list key

alg

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the alg context
Introduced	16.0.R1

ftp *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **alg**
Description	FTP ALG
Default	true
Introduced	16.0.R1

rtsp *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **alg**
Description	RTSP ALG
Default	false
Introduced	16.0.R1

sip *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **alg**
Description	SIP ALG
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service nat firewall-policy** *external-named-item*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

domain

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the **domain** context
Introduced	16.0.R1

name *string*

Context	**configure service nat firewall-policy** *external-named-item* **domain**
Description	Domain name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Context	**configure service nat firewall-policy** *external-named-item* **domain**
Description	Virtual router instance
Introduced	16.0.R1
Notes	This element is part of a choice

filtering *keyword*

Context	**configure service nat firewall-policy** *external-named-item*
Description	Filtering
Options	endpoint-independent, address-and-port-dependent
Introduced	16.0.R1

l2-outside

Context	**configure service nat firewall-policy** *external-named-item*
Description	Allow NAT policy to use Layer 2 outside service instead of Layer 3 outside service
Introduced	16.0.R1
Notes	This element is part of a choice

port-limits

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the port-limits context
Introduced	16.0.R1

forwarding *number*

Context	**configure service nat firewall-policy** *external-named-item* **port-limits**
Description	Maximum number of port forwarding entries
Range	1 to 64
Introduced	16.0.R1

priority-sessions

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the priority-sessions context
Introduced	16.0.R1

fc

Context	**configure service nat firewall-policy** *external-named-item* **priority-sessions**
Description	Enter the fc context
Introduced	16.0.R1

af *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description	Assign AF forwarding class as containing prioritized traffic
Default	false
Introduced	16.0.R1

be *boolean*

Context **configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description Assign BE forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

ef *boolean*

Context **configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description Assign EF forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

h1 *boolean*

Context **configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description Assign H1 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

h2 *boolean*

Context **configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description Assign H2 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

l1 *boolean*

Context **configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description Assign L1 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

l2 *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description	Assign L2 forwarding class as containing prioritized traffic
Default	false
Introduced	16.0.R1

nc *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **priority-sessions fc**
Description	Assign L2 forwarding class as containing prioritized traffic
Default	false
Introduced	16.0.R1

session-limits

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the session-limits context
Introduced	16.0.R1

max *number*

Context	**configure service nat firewall-policy** *external-named-item* **session-limits**
Description	Session limit
Range	1 to 65535
Default	65535
Introduced	16.0.R1

reserved *number*

Context	**configure service nat firewall-policy** *external-named-item* **session-limits**
Description	Number of sessions reserved for prioritized sessions
Range	1 to 65534
Introduced	16.0.R1

watermarks

Context	**configure service nat firewall-policy** *external-named-item* **session-limits**
Description	Enter the watermarks context
Introduced	16.0.R1

high *number*

Context	**configure service nat firewall-policy** *external-named-item* **session-limits watermarks**
Description	Percentage for high watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure service nat firewall-policy** *external-named-item* **session-limits watermarks**
Description	Percentage for low watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

tcp

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the tcp context
Introduced	16.0.R1

mss-adjust *number*

Context	**configure service nat firewall-policy** *external-named-item* **tcp**
Description	Value to adjust the TCP Maximum Segment Size (MSS) option
Range	160 to 10240
Introduced	16.0.R1

timeouts

Context **configure service nat firewall-policy** *external-named-item*
Description Enter the timeouts context
Introduced 16.0.R1

icmp6-query *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts**
Description Timeout applied to an ICMPv6 Query session
Range 60 to 240
Default 60
Introduced 16.0.R1

sip *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts**
Description SIP inactive media timeout
Range 10 to 7200
Default 120
Introduced 16.0.R1

tcp

Context **configure service nat firewall-policy** *external-named-item* **timeouts**
Description Enter the tcp context
Introduced 16.0.R1

established *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts tcp**
Description Idle timeout applied to a TCP session in the established state
Range 60 to 86400
Default 7440
Introduced 16.0.R1

rst *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts tcp**
Description Time after receiving RST before a TCP session can return to the state LISTEN
Range 0 to 240
Default 0
Introduced 16.0.R1

syn *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts tcp**
Description Timeout applied to a TCP session when synchronizing its initial sequence
Range 6 to 86400
Default 15
Introduced 16.0.R1

time-wait *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts tcp**
Description Timeout applied to a TCP session in the time-wait state
Range 0 to 240
Default 0
Introduced 16.0.R1

transitory *number*

Context **configure service nat firewall-policy** *external-named-item* **timeouts tcp**
Description Idle timeout applied to a TCP session in a transitory state
Range 60 to 86400
Default 240
Introduced 16.0.R1

udp

Context **configure service nat firewall-policy** *external-named-item* **timeouts**
Description Enter the udp context
Introduced 16.0.R1

dns *number*

Context	**configure service nat firewall-policy** *external-named-item* **timeouts udp**
Description	Timeout applied to a UDP session with destination port 53
Range	15 to 86400
Default	15
Introduced	16.0.R1

initial *number*

Context	**configure service nat firewall-policy** *external-named-item* **timeouts udp**
Description	UDP mapping timeout applied to new sessions
Range	10 to 300
Default	15
Introduced	16.0.R1

normal *number*

Context	**configure service nat firewall-policy** *external-named-item* **timeouts udp**
Description	UDP mapping timeouts
Range	60 to 86400
Default	300
Introduced	16.0.R1

unknown-protocol *number*

Context	**configure service nat firewall-policy** *external-named-item* **timeouts**
Description	Timeout for flows with an unknown protocol
Range	60 to 86400
Default	300
Introduced	16.0.R1

udp

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the udp context
Introduced	16.0.R1

inbound-refresh *boolean*

Context	**configure service nat firewall-policy** *external-named-item* **udp**
Description	Extend UDP session timeout on inbound traffic
Default	false
Introduced	16.0.R1

unknown-protocols

Context	**configure service nat firewall-policy** *external-named-item*
Description	Enter the unknown-protocols context
Introduced	16.0.R1

all

Context	**configure service nat firewall-policy** *external-named-item* **unknown-protocols**
Description	Flows with any protocol that are allowed
Introduced	16.0.R1
Notes	This element is part of a choice

protocol *number*

Context	**configure service nat firewall-policy** *external-named-item* **unknown-protocols**
Description	Protocol number
Range	0 to 255
Max. Elements	8
Introduced	16.0.R1
Notes	This element is part of a choice

map-t

Context	**configure service nat**
Description	Enter the map-t context
Introduced	16.0.R4

domain [name] *string*

Context	**configure service nat map-t**
Description	Enter the domain context
Max. Elements	31
Introduced	16.0.R4

[name] *string*

Context	**configure service nat map-t domain** *string*
Description	MAP-T domain name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service nat map-t domain** *string*
Description	Disable or enable the map domain
Default	disable
Options	enable, disable
Introduced	16.0.R4

description *string*

Context	**configure service nat map-t domain** *string*
Description	The description
String Length	1 to 80
Introduced	16.0.R4

dmr-prefix *ipv6-prefix*

Context	**configure service nat map-t domain** *string*
Description	The Default Mapping Rule prefix
Introduced	16.0.R4

ip-fragmentation

Context	**configure service nat map-t domain** *string*
Description	Enter the ip-fragmentation context
Introduced	16.0.R4

v6-frag-header *boolean*

Context	**configure service nat map-t domain** *string* **ip-fragmentation**
Description	This specifies if an IPv6 fragmentation header is added when a non-fragmented IPv4 packet with the Don't Fragment bit cleared is translated into IPv6
Default	false
Introduced	16.0.R4

mapping-rule [rule-name] *string*

Context	**configure service nat map-t domain** *string*
Description	Enter the mapping-rule context
Max. Elements	256
Introduced	16.0.R4

[rule-name] *string*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	The name that identifies this mapping rule
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	Disable or enable the mapping rule
Default	disable
Options	enable, disable
Introduced	16.0.R4

description *string*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	The description
String Length	1 to 80
Introduced	16.0.R4

ea-length *number*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	The length of the EA bits field in the End-user IPv6 prefix part of the IPv6 Map Address
Range	0 to 48
Default	0
Introduced	16.0.R4

ipv4-prefix *ipv4-prefix*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	The IPv4 prefix
Introduced	16.0.R4

psid-offset *number*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	The offset of the Port Set ID (PSID) within a 16 bits wide port space
Range	0 to 16
Default	6
Introduced	16.0.R4

rule-prefix *ipv6-prefix*

Context	**configure service nat map-t domain** *string* **mapping-rule** *string*
Description	The IPv6 prefix
Introduced	16.0.R4

mtu *number*

Context	**configure service nat map-t domain** *string*
Description	Configure the MTU
Range	160 to 8686
Default	8686
Introduced	16.0.R4

tcp-mss-adjust *number*

Context	**configure service nat map-t domain** *string*
Description	The value to adjust the TCP Maximum Segment Size (MSS) option
Range	0 | 160 to 8626
Default	0
Introduced	16.0.R4

nat-policy [name] *external-named-item*

Context	**configure service nat**
Description	Enter the nat-policy context
Max. Elements	2048
Introduced	16.0.R1

[name] *external-named-item*

Context	**configure service nat nat-policy** *external-named-item*
Description	Policy name
Introduced	16.0.R1
Notes	This element is part of a list key

alg

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the alg context
Introduced	16.0.R1

ftp *boolean*

Context **configure service nat nat-policy** *external-named-item* **alg**
Description FTP ALG
Default true
Introduced 16.0.R1

pptp *boolean*

Context **configure service nat nat-policy** *external-named-item* **alg**
Description PPTP ALG
Default false
Introduced 16.0.R1

rtsp *boolean*

Context **configure service nat nat-policy** *external-named-item* **alg**
Description RTSP ALG
Default false
Introduced 16.0.R1

sip *boolean*

Context **configure service nat nat-policy** *external-named-item* **alg**
Description SIP ALG
Default false
Introduced 16.0.R1

block-limit *number*

Context **configure service nat nat-policy** *external-named-item*
Description Maximum number of port blocks per subscriber
Range 1 to 40
Default 1
Introduced 16.0.R1

description *string*

Context	**configure service nat nat-policy** *external-named-item*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dnat

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the dnat context
Introduced	16.0.R1

classifier *string*

Context	**configure service nat nat-policy** *external-named-item* **dnat**
Description	NAT classifier
Reference	configure **service nat classifier** *string*
Introduced	16.0.R1

dnat-only

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the **dnat-only** context
Introduced	16.0.R1

nat-group *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service nat nat-policy** *external-named-item* **dnat-only**
Description	NAT group
Reference	configure **isa nat-group** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

router-instance *string*

Context	**configure service nat nat-policy** *external-named-item* **dnat-only**
Description	Attribute router-instance for dnat-only
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service nat nat-policy** *external-named-item* **dnat-only**
Description	WLAN GW group used for NAT
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

filtering *keyword*

Context	**configure service nat nat-policy** *external-named-item*
Description	Filtering
Options	endpoint-independent, address-and-port-dependent
Introduced	16.0.R1

flow-log-policy

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the flow-log-policy context
Introduced	16.0.R1

ipfix *string*

Context	**configure service nat nat-policy** *external-named-item* **flow-log-policy**
Description	IPFIX export policy
Reference	configure **service ipfix export-policy** *string*
Introduced	16.0.R1

syslog *string*

Context	**configure service nat nat-policy** *external-named-item* **flow-log-policy**
Description	SYSLOG export policy
Reference	configure **service nat syslog export-policy** *string*
Introduced	16.0.R1

l2-outside

Context	**configure service nat nat-policy** *external-named-item*
Description	Allow NAT policy to use Layer 2 outside service instead of Layer 3 outside service
Introduced	16.0.R1
Notes	This element is part of a choice

pool

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the **pool** context
Introduced	16.0.R1

name *string*

Context	**configure service nat nat-policy** *external-named-item* **pool**
Description	NAT pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Context	**configure service nat nat-policy** *external-named-item* **pool**
Description	The virtual router instance of the pool.
Introduced	16.0.R1
Notes	This element is part of a choice

port-forwarding-range-end *number*

Context **configure service nat nat-policy** *external-named-item*

Description End of the port forwarding range

Range 1023 to 65535

Default 1023

Introduced 16.0.R1

port-limits

Context **configure service nat nat-policy** *external-named-item*

Description Enter the port-limits context

Introduced 16.0.R1

forwarding *number*

Context **configure service nat nat-policy** *external-named-item* **port-limits**

Description Maximum number of port forwarding entries

Range 1 to 64

Introduced 16.0.R1

reserved *number*

Context **configure service nat nat-policy** *external-named-item* **port-limits**

Description Number of ports reserved for prioritized sessions

Range 1 to 65534

Introduced 16.0.R1

watermarks

Context **configure service nat nat-policy** *external-named-item* **port-limits**

Description Enter the watermarks context

Introduced 16.0.R1

high *number*

Context	**configure service nat nat-policy** *external-named-item* **port-limits watermarks**
Description	Percentage for high watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure service nat nat-policy** *external-named-item* **port-limits watermarks**
Description	Percentage for low watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

priority-sessions

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the priority-sessions context
Introduced	16.0.R1

fc

Context	**configure service nat nat-policy** *external-named-item* **priority-sessions**
Description	Enter the fc context
Introduced	16.0.R1

af *boolean*

Context	**configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description	Assign AF forwarding class as containing prioritized traffic
Default	false
Introduced	16.0.R1

be *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign BE forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

ef *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign EF forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

h1 *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign H1 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

h2 *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign H2 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

l1 *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign L1 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

l2 *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign L2 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

nc *boolean*

Context **configure service nat nat-policy** *external-named-item* **priority-sessions fc**
Description Assign L2 forwarding class as containing prioritized traffic
Default false
Introduced 16.0.R1

session-limits

Context **configure service nat nat-policy** *external-named-item*
Description Enter the session-limits context
Introduced 16.0.R1

max *number*

Context **configure service nat nat-policy** *external-named-item* **session-limits**
Description Session limit
Range 1 to 65535
Default 65535
Introduced 16.0.R1

reserved *number*

Context **configure service nat nat-policy** *external-named-item* **session-limits**
Description Number of sessions reserved for prioritized sessions
Range 1 to 65534
Introduced 16.0.R1

watermarks

Context	**configure service nat nat-policy** *external-named-item* **session-limits**
Description	Enter the watermarks context
Introduced	16.0.R1

high *number*

Context	**configure service nat nat-policy** *external-named-item* **session-limits watermarks**
Description	Percentage for high watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure service nat nat-policy** *external-named-item* **session-limits watermarks**
Description	Percentage for low watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

tcp

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the tcp context
Introduced	16.0.R1

mss-adjust *number*

Context	**configure service nat nat-policy** *external-named-item* **tcp**
Description	Value to adjust the TCP Maximum Segment Size (MSS) option
Range	160 to 10240
Introduced	16.0.R1

reset-unknown *boolean*

Context	**configure service nat nat-policy** *external-named-item* **tcp**
Description	Send of TCP RST upon non-SYN TCP message for unknown flow
Default	false
Introduced	16.0.R1

timeouts

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the timeouts context
Introduced	16.0.R1

icmp-query *number*

Context	**configure service nat nat-policy** *external-named-item* **timeouts**
Description	Timeout applied to an ICMP Query session
Range	60 to 240
Default	60
Introduced	16.0.R1

sip *number*

Context	**configure service nat nat-policy** *external-named-item* **timeouts**
Description	SIP inactive media timeout
Range	10 to 7200
Default	120
Introduced	16.0.R1

subscriber-retention *number*

Context	**configure service nat nat-policy** *external-named-item* **timeouts**
Description	Time a subscribers' IP address is kept after all hosts and port blocks have expired
Range	0 to 1440
Default	0
Units	minutes
Introduced	16.0.R1

tcp

Context **configure service nat nat-policy** *external-named-item* **timeouts**

Description Enter the tcp context

Introduced 16.0.R1

established *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts tcp**

Description Idle timeout applied to a TCP session in the established state

Range 60 to 86400

Default 7440

Introduced 16.0.R1

rst *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts tcp**

Description Time after receiving RST before a TCP session can return to the state LISTEN

Range 0 to 240

Default 0

Introduced 16.0.R1

syn *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts tcp**

Description Timeout applied to a TCP session when synchronizing its initial sequence

Range 6 to 86400

Default 15

Introduced 16.0.R1

time-wait *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts tcp**

Description Timeout applied to a TCP session in the time-wait state

Range 0 to 240

Default 0

Introduced 16.0.R1

transitory *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts tcp**
Description Idle timeout applied to a TCP session in a transitory state
Range 60 to 86400
Default 240
Introduced 16.0.R1

udp

Context **configure service nat nat-policy** *external-named-item* **timeouts**
Description Enter the udp context
Introduced 16.0.R1

dns *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts udp**
Description Timeout applied to a UDP session with destination port 53
Range 15 to 86400
Default 15
Introduced 16.0.R1

initial *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts udp**
Description UDP mapping timeout applied to new sessions
Range 10 to 300
Default 15
Introduced 16.0.R1

normal *number*

Context **configure service nat nat-policy** *external-named-item* **timeouts udp**
Description UDP mapping timeouts
Range 60 to 86400
Default 300
Introduced 16.0.R1

udp

Context	**configure service nat nat-policy** *external-named-item*
Description	Enter the udp context
Introduced	16.0.R1

inbound-refresh *boolean*

Context	**configure service nat nat-policy** *external-named-item* **udp**
Description	Extend UDP session timeout on inbound traffic
Default	false
Introduced	16.0.R1

pcp-server-policy [name] *string*

Context	**configure service nat**
Description	Enter the pcp-server-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure service nat pcp-server-policy** *string*
Description	Name of this policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure service nat pcp-server-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

lifetime

Context **configure service nat pcp-server-policy** *string*

Description Enter the lifetime context

Introduced 16.0.R1

maximum *number*

Context **configure service nat pcp-server-policy** *string* **lifetime**

Description Maximum lifetime of explicit mappings made by the PCP servers

Range 61 to 86400

Default 86400

Introduced 16.0.R1

minimum *number*

Context **configure service nat pcp-server-policy** *string* **lifetime**

Description Minimum lifetime of explicit mappings made by the PCP servers

Range 60 to 86399

Default 120

Introduced 16.0.R1

max-description-size *number*

Context **configure service nat pcp-server-policy** *string*

Description Maximum length of mapping descriptions made by the PCP servers

Range 1 to 64

Default 64

Introduced 16.0.R1

opcode

Context **configure service nat pcp-server-policy** *string*

Description Enter the opcode context

Introduced 16.0.R1

announce *boolean*

Context **configure service nat pcp-server-policy** *string* **opcode**
Description Process the announce PCP requests
Default false
Introduced 16.0.R1

get *boolean*

Context **configure service nat pcp-server-policy** *string* **opcode**
Description Process the get PCP requests
Default false
Introduced 16.0.R1

map *boolean*

Context **configure service nat pcp-server-policy** *string* **opcode**
Description Process the map PCP requests
Default false
Introduced 16.0.R1

option

Context **configure service nat pcp-server-policy** *string*
Description Enter the option context
Introduced 16.0.R1

description *boolean*

Context **configure service nat pcp-server-policy** *string* **option**
Description Text description
Default false
Introduced 16.0.R1

next *boolean*

Context	**configure service nat pcp-server-policy** *string* **option**
Description	Process the PCP requests that contain the next option
Default	false
Introduced	16.0.R1

port-reservation *boolean*

Context	**configure service nat pcp-server-policy** *string* **option**
Description	Process the PCP requests that contain the prefer failure option
Default	false
Introduced	16.0.R1

prefer-failure *boolean*

Context	**configure service nat pcp-server-policy** *string* **option**
Description	Process the PCP requests that contain the port reservation option
Default	false
Introduced	16.0.R1

third-party *boolean*

Context	**configure service nat pcp-server-policy** *string* **option**
Description	Process the PCP requests that contain the third party option
Default	false
Introduced	16.0.R1

version

Context	**configure service nat pcp-server-policy** *string*
Description	Enter the version context
Introduced	16.0.R1

maximum *number*

Context	**configure service nat pcp-server-policy** *string* **version**
Description	Maximum protocol version supported by the PCP servers
Range	1 to 255
Default	1
Introduced	16.0.R1

minimum *number*

Context	**configure service nat pcp-server-policy** *string* **version**
Description	Minimum protocol version supported by the PCP servers
Range	1 to 255
Default	1
Introduced	16.0.R1

prefix-list [name] *string*

Context	**configure service nat**
Description	Enter the prefix-list context
Introduced	16.0.R1

[name] *string*

Context	**configure service nat prefix-list** *string*
Description	Maps prefixes to policies
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

application *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service nat prefix-list** *string*
Description	Prefix list for the application
Options	l2-aware-dest-to-policy, dnat-only-subscribers
Introduced	16.0.R1

prefix [ip-prefix] *ipv4-prefix*

Context	**configure service nat prefix-list** *string*
Description	Enter the prefix context
Max. Elements	1024
Introduced	16.0.R1

[ip-prefix] *ipv4-prefix*

Context	**configure service nat prefix-list** *string* **prefix** *ipv4-prefix*
Description	NAT prefix
Introduced	16.0.R1
Notes	This element is part of a list key

nat-policy *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service nat prefix-list** *string* **prefix** *ipv4-prefix*
Description	NAT policy for LSN
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

syslog

Context	**configure service nat**
Description	Enter the syslog context
Introduced	16.0.R1

export-policy [name] *string*

Context	**configure service nat syslog**
Description	Enter the export-policy context
Max. Elements	8
Introduced	16.0.R1

[name] *string*

Context	**configure service nat syslog export-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

collector router-instance *string* **ip-address** *ipv4-unicast-address*

Context	**configure service nat syslog export-policy** *string*
Description	Enter the collector context
Max. Elements	2
Introduced	16.0.R1

router-instance *string*

Context	**configure service nat syslog export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Router instance
Introduced	16.0.R1
Notes	This element is part of a list key

ip-address *ipv4-unicast-address*

Context	**configure service nat syslog export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	IPv4 address of the collector
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service nat syslog export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Administrative state of this collector
Default	disable
Options	enable, disable
Introduced	16.0.R1

destination-port *number*

Context	**configure service nat syslog export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	Destination port
Range	1 to 65535
Default	514
Introduced	16.0.R1

ipv4-source-address *ipv4-unicast-address*

Context	**configure service nat syslog export-policy** *string* **collector router-instance** *string* **ip-address** *ipv4-unicast-address*
Description	IPv4 source address
Introduced	16.0.R1

description *string*

Context	**configure service nat syslog export-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

facility *keyword*

Context	**configure service nat syslog export-policy** *string*
Description	Facility number in the PRI part of the NAT SYSLOG messages
Default	local0
Options	kernel, user, mail, systemd, auth, syslogd, printer, netnews, uucp, cron, authpriv, ftp, ntp, logaudit, logalert, cron2, local0, local1, local2, local3, local4, local5, local6, local7
Introduced	16.0.R1

include

Context	**configure service nat syslog export-policy** *string*
Description	Enter the include context
Introduced	16.0.R1

destination-ip *boolean*

Context	**configure service nat syslog export-policy** *string* **include**
Description	Include the translated destination IP address
Default	false
Introduced	16.0.R1

foreign-ip *boolean*

Context	**configure service nat syslog export-policy** *string* **include**
Description	Include the original destination IPv4 address
Default	false
Introduced	16.0.R1

foreign-port *boolean*

Context	**configure service nat syslog export-policy** *string* **include**
Description	Include the original destination port
Default	false
Introduced	16.0.R1

nat-policy-name *boolean*

Context **configure service nat syslog export-policy** *string* **include**
Description Include the nat-policy name
Default false
Introduced 16.0.R1

sub-id *boolean*

Context **configure service nat syslog export-policy** *string* **include**
Description Subscriber ID in subscriber aware NAT
Default false
Introduced 16.0.R1

log-prefix *string*

Context **configure service nat syslog export-policy** *string*
Description Optional prefix text in the MSG part of the NAT syslog messages
String Length 1 to 32
Default TMNX
Introduced 16.0.R1

max-tx-delay *number*

Context **configure service nat syslog export-policy** *string*
Description Maximum time a syslog message delays in the output buffer to aggregate multiple events
Range 0 to 100
Default 3
Units deciseconds
Introduced 16.0.R1

mtu *number*

Context **configure service nat syslog export-policy** *string*
Description Maximum transmission unit
Range 512 to 9000
Default 1500
Introduced 16.0.R1

rate-limit *number*

Context	**configure service nat syslog export-policy** *string*
Description	Frame limit
Range	10 to 2147483647
Units	packets per second
Introduced	16.0.R1

severity-level *keyword*

Context	**configure service nat syslog export-policy** *string*
Description	Severity level in the PRI part of the syslog messages
Default	info
Options	emergency, alert, critical, error, warning, notice, info, debug
Introduced	16.0.R1

oper-group [name] *string*

Context	**configure service**
Description	Enter the oper-group context
Max. Elements	16384
Introduced	16.0.R1

[name] *string*

Context	**configure service oper-group** *string*
Description	Service operational group name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

bfd-liveness

Context	**configure service oper-group** *string*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service oper-group** *string* **bfd-liveness**
Description	Destination address for BFD
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service oper-group** *string* **bfd-liveness**
Description	Destination interface name for BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

router-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service oper-group** *string* **bfd-liveness**
Description	Routing context used for route lookup.
Introduced	16.0.R1
Notes	This element is mandatory

hold-time

Context	**configure service oper-group** *string*
Description	Enter the hold-time context
Introduced	16.0.R1

down *number*

Context	**configure service oper-group** *string* **hold-time**
Description	Oper group hold down time
Range	1 to 3600
Units	seconds
Introduced	16.0.R3

up *number*

Context	**configure service oper-group** *string* **hold-time**
Description	Oper group hold up time
Range	0 to 3600
Default	4
Units	seconds
Introduced	16.0.R3

pbb

Context	**configure service**
Description	Enter the pbb context
Introduced	16.0.R1

mac [name] *string*

Context	**configure service pbb**
Description	Enter the mac context
Introduced	16.0.R1

[name] *string*

Context	**configure service pbb mac** *string*
Description	MAC address name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address *mac-unicast-address-no-zero*

Context	**configure service pbb mac** *string*
Description	IEEE address for the MAC name
Introduced	16.0.R1
Notes	This element is mandatory

mac-notification

Context	**configure service pbb**
Description	Enter the mac-notification context
Introduced	16.0.R1

count *number*

Context	**configure service pbb mac-notification**
Description	MAC notification messages count
Range	1 to 10
Default	3
Introduced	16.0.R1

interval *number*

Context	**configure service pbb mac-notification**
Description	Interval for MAC-notification messages
Range	1 to 100
Default	1
Units	deciseconds
Introduced	16.0.R1

source-bmac

Context	**configure service pbb**
Description	Enter the source-bmac context
Introduced	16.0.R1

address *mac-unicast-address-no-zero*

Context	**configure service pbb source-bmac**
Description	Source b-vpls MAC address to use with PBB
Introduced	16.0.R1

evpn-etree-leaf-address *mac-unicast-address-no-zero*

Context	**configure service pbb source-bmac**
Description	Source Backbone VPLS MAC address to use with Provider Backbone Bridging (PBB)
Introduced	16.0.R1

proxy-arp-nd

Context	**configure service**
Description	Enter the proxy-arp-nd context
Introduced	16.0.R1

mac-list

Context	**configure service proxy-arp-nd**
Description	Enter the mac-list context
Introduced	16.0.R1

list [list-name] *string*

Context	**configure service proxy-arp-nd mac-list**
Description	Enter the list context
Introduced	16.0.R1

[list-name] *string*

Context	**configure service proxy-arp-nd mac-list list** *string*
Description	Specify name for mac list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

mac [address] *mac-unicast-address-no-zero*

Context	**configure service proxy-arp-nd mac-list list** *string*
Description	Enter the mac context
Max. Elements	10
Introduced	16.0.R1

[address] *mac-unicast-address-no-zero*

Context	**configure service proxy-arp-nd mac-list list** *string* **mac** *mac-unicast-address-no-zero*
Description	Mac address in the proxy arp nd mac list
Introduced	16.0.R1
Notes	This element is part of a list key

pw-template [pw-template-name] *pw-template-name*

Context	**configure service**
Description	Enter the pw-template context
Max. Elements	2048
Introduced	16.0.R1

[pw-template-name] *pw-template-name*

Context	**configure service pw-template** *pw-template-name*
Description	PW template name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *number*

Context	**configure service pw-template** *pw-template-name*
Description	Accounting policy
Range	1 to 99
Introduced	16.0.R1

allow-fragmentation *boolean*

Context	**configure service pw-template** *pw-template-name*
Description	Whether to allow gre encapsulated packets to be sent without setting the DF bit.
Default	false
Introduced	16.0.R1

auto-gre-sdp *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service pw-template** *pw-template-name*
Description	Use a GRE tunnel to automatically create an SDP
Default	false
Introduced	16.0.R1

block-on-peer-fault *boolean*

Context	**configure service pw-template** *pw-template-name*
Description	Enable block traffic on peer fault
Default	false
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service pw-template** *pw-template-name*
Description	Collect statistics
Default	false
Introduced	16.0.R1

control-word *boolean*

Context	**configure service pw-template** *pw-template-name*
Description	Enable/Disable the use of ControlWord
Default	false
Introduced	16.0.R1

egress

Context **configure service pw-template** *pw-template-name*
Description Enter the egress context
Introduced 16.0.R1

filter

Context **configure service pw-template** *pw-template-name* **egress**
Description Enter the filter context
Introduced 16.0.R1

ip *string*

Context **configure service pw-template** *pw-template-name* **egress filter**
Description IP filter
String Length 1 to 64
Introduced 16.0.R1

ipv6 *string*

Context **configure service pw-template** *pw-template-name* **egress filter**
Description IPv6 filter
String Length 1 to 64
Introduced 16.0.R1

mac *string*

Context **configure service pw-template** *pw-template-name* **egress filter**
Description IPv6 filter
String Length 1 to 64
Introduced 16.0.R1

mfib-allowed-mda-destinations

Context **configure service pw-template** *pw-template-name* **egress**
Description Enter the mfib-allowed-mda-destinations context
Introduced 16.0.R1

mda [mda-id] *slot-mda*

Context **configure service pw-template** *pw-template-name* **egress mfib-allowed-mda-destinations**

Description Enter the mda context

Introduced 16.0.R1

[mda-id] *slot-mda*

Context **configure service pw-template** *pw-template-name* **egress mfib-allowed-mda-destinations mda** *slot-mda*

Description MFIB allowed MDA destination

Introduced 16.0.R1

Notes This element is part of a list key

qos

Context **configure service pw-template** *pw-template-name* **egress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service pw-template** *pw-template-name* **egress qos**

Description Enter the network context

Introduced 16.0.R1

policy-name *string*

Context **configure service pw-template** *pw-template-name* **egress qos network**

Description Network policy identifier

String Length 1 to 64

Introduced 16.0.R1

port-redirect-group

Context **configure service pw-template** *pw-template-name* **egress qos network**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context	**configure service pw-template** *pw-template-name* **egress qos network port-redirect-group**
Description	Port redirect group
String Length	1 to 32
Introduced	16.0.R1

instance *number*

Context	**configure service pw-template** *pw-template-name* **egress qos network port-redirect-group**
Description	Instance for FP ingress queue group
Range	1 to 65535
Introduced	16.0.R1

entropy-label

Context	**configure service pw-template** *pw-template-name*
Description	Whether the use of entropy-label is enabled or not.
Introduced	16.0.R1
Notes	This element is part of a choice

fdb

Context	**configure service pw-template** *pw-template-name*
Description	Enter the fdb context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	Enable automatic update of MAC protect list
Default	false
Introduced	16.0.R1

discard-unknown-source *boolean*

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	Discard frames with unknown source
Default	false
Introduced	16.0.R1

limit-mac-move *keyword*

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	MAC move limit
Default	blockable
Options	blockable, non-blockable
Introduced	16.0.R1

mac-learning

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	Enter the mac-learning context
Introduced	16.0.R1

aging *boolean*

Context	**configure service pw-template** *pw-template-name* **fdb mac-learning**
Description	Enable aging of MAC addresses
Default	true
Introduced	16.0.R1

learning *boolean*

Context	**configure service pw-template** *pw-template-name* **fdb mac-learning**
Description	Enable learning of new MAC addresses
Default	true
Introduced	16.0.R1

mac-pinning *boolean*

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	Enable MAC address pinning on this spoke SDP
Default	false
Introduced	16.0.R1

maximum-mac-addresses *number*

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	Maximum number of MAC entries in the FDB
Range	1 to 511999
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service pw-template** *pw-template-name* **fdb**
Description	Action for protected source MAC restriction
Options	sdp-bind-oper-down, alarm-only, discard
Introduced	16.0.R1

force-vc-forwarding *keyword*

Context	**configure service pw-template** *pw-template-name*
Description	vlan - Configure data-path forwarding to force vlan-vc-type. qinq-c-tag-c-tag - Configure data-path to forcefully insert two VLAN tags.Their vlan values are the same and obtained from the service-delimiting c-tag. qinq-s-tag-c-tag - Configure data-path to forcefully insert two VLAN tags.Their vlan values are obtained from the service-delimiting s-tag and c-tag respectively.
Options	vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced	16.0.R4

hash-label

Context	**configure service pw-template** *pw-template-name*
Description	Enter the **hash-label** context
Introduced	16.0.R1

signal-capability

Context	**configure service pw-template** *pw-template-name* **hash-label**
Description	Hash label capability that is signaled to the remote PE
Introduced	16.0.R1
Notes	This element is part of a choice

igmp-snooping

Context	**configure service pw-template** *pw-template-name*
Description	Enter the igmp-snooping context
Introduced	16.0.R1

fast-leave *boolean*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Allow IGMP fast leave processing
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Import policy that filters IGMP packets
String Length	1 to 32
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Maximum multicast groups
Range	1 to 1000
Introduced	16.0.R1

query-interval *number*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Time between group-specific query messages
Range	1 to 50
Default	10
Units	deciseconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service pw-template** *pw-template-name* **igmp-snooping**
Description	Number of retries to cope with message loss.
Range	2 to 7
Default	2
Introduced	16.0.R1

send-queries *boolean*

Context **configure service pw-template** *pw-template-name* **igmp-snooping**
Description Generate IGMP general queries
Default false
Introduced 16.0.R1

version *keyword*

Context **configure service pw-template** *pw-template-name* **igmp-snooping**
Description IGMP version
Default 3
Options 1, 2, 3
Introduced 16.0.R1

ingress

Context **configure service pw-template** *pw-template-name*
Description Enter the ingress context
Introduced 16.0.R1

filter

Context **configure service pw-template** *pw-template-name* **ingress**
Description Enter the filter context
Introduced 16.0.R1

ip *string*

Context **configure service pw-template** *pw-template-name* **ingress filter**
Description IP filter
String Length 1 to 64
Introduced 16.0.R1

ipv6 *string*

Context **configure service pw-template** *pw-template-name* **ingress filter**

Description IPv6 filter

String Length 1 to 64

Introduced 16.0.R1

mac *string*

Context **configure service pw-template** *pw-template-name* **ingress filter**

Description IPv6 filter

String Length 1 to 64

Introduced 16.0.R1

qos

Context **configure service pw-template** *pw-template-name* **ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service pw-template** *pw-template-name* **ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context **configure service pw-template** *pw-template-name* **ingress qos network**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service pw-template** *pw-template-name* **ingress qos network fp-redirect-group**

Description FP redirect group

String Length 1 to 32

Introduced 16.0.R1

instance *number*

Context **configure service pw-template** *pw-template-name* **ingress qos network fp-redirect-group**

Description Instance for FP ingress queue group

Range 1 to 65535

Introduced 16.0.R1

policy-name *string*

Context **configure service pw-template** *pw-template-name* **ingress qos network**

Description Network policy identifier

String Length 1 to 64

Introduced 16.0.R1

l2pt

Context **configure service pw-template** *pw-template-name*

Description Enter the l2pt context

Introduced 16.0.R1

termination

Context **configure service pw-template** *pw-template-name* **l2pt**

Description Enter the termination context

Introduced 16.0.R1

protocols

Context **configure service pw-template** *pw-template-name* **l2pt termination**

Description Enter the protocols context

Introduced 16.0.R1

cdp *boolean*

Context **configure service pw-template** *pw-template-name* **l2pt termination protocols**

Description Enable Cisco discovery protocol

Default false

Introduced 16.0.R1

dtp *boolean*

Context **configure service pw-template** *pw-template-name* **l2pt termination protocols**

Description Enable dynamic trunking protocol

Default false

Introduced 16.0.R1

pagp *boolean*

Context **configure service pw-template** *pw-template-name* **l2pt termination protocols**

Description Enable/disable port aggregation protocol.

Default false

Introduced 16.0.R1

stp *boolean*

Context **configure service pw-template** *pw-template-name* **l2pt termination protocols**

Description Enable/disable spanning tree protocols stp/mstp/pvst/rstp.

Default true

Introduced 16.0.R1

udld *boolean*

Context **configure service pw-template** *pw-template-name* **l2pt termination protocols**

Description Enable/disable unidirectional link detection.

Default false

Introduced 16.0.R1

vtp *boolean*

Context **configure service pw-template** *pw-template-name* **l2pt termination protocols**

Description Enable/disable virtual trunk protocol.

Default false

Introduced 16.0.R1

provisioned-sdp *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service pw-template** *pw-template-name*
Description	Provisioned SDP type
Options	use, prefer
Introduced	16.0.R1

pw-template-id *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service pw-template** *pw-template-name*
Description	PW Template Id
Range	1 to 2147483647
Introduced	16.0.R1

sdp-exclude [group-name] *string*

Context	**configure service pw-template** *pw-template-name*
Description	Enter the sdp-exclude context
Introduced	16.0.R1

[group-name] *string*

Context	**configure service pw-template** *pw-template-name* **sdp-exclude** *string*
Description	Service Distribution Point (SDP) SDP Group Name.
Reference	configure **service sdp-group group-name** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

sdp-include [group-name] *string*

Context	**configure service pw-template** *pw-template-name*
Description	Enter the sdp-include context
Introduced	16.0.R1

[group-name] *string*

Context	**configure service pw-template** *pw-template-name* **sdp-include** *string*
Description	Service Distribution Point (SDP) SDP Group Name.
Reference	configure **service sdp-group group-name** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

split-horizon-group

Context	**configure service pw-template** *pw-template-name*
Description	Enter the split-horizon-group context
Introduced	16.0.R1

description *string*

Context	**configure service pw-template** *pw-template-name* **split-horizon-group**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fdb

Context	**configure service pw-template** *pw-template-name* **split-horizon-group**
Description	Enter the fdb context
Introduced	16.0.R1

saps

Context	**configure service pw-template** *pw-template-name* **split-horizon-group fdb**
Description	Enter the saps context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service pw-template** *pw-template-name* **split-horizon-group fdb saps**
Description	Enable automatic update of MAC protect list
Default	false
Introduced	16.0.R1

discard-unprotected-dest-mac *boolean*

Context	**configure service pw-template** *pw-template-name* **split-horizon-group fdb saps**
Description	Enable/disable unprotected dest MAC restriction
Default	false
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service pw-template** *pw-template-name* **split-horizon-group fdb saps**
Description	Action for protected source MAC restriction
Options	sap-oper-down, alarm-only, discard
Introduced	16.0.R1

name *string*

Context	**configure service pw-template** *pw-template-name* **split-horizon-group**
Description	Specify name of the split-horizon group
String Length	1 to 32
Introduced	16.0.R1

stp

Context	**configure service pw-template** *pw-template-name*
Description	Enter the stp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Enable/disable spanning-tree-protocol
Default	enable
Options	enable, disable
Introduced	16.0.R1

auto-edge *boolean*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Enable/disable automatic detection of edge-port.
Default	true
Introduced	16.0.R1

edge-port *boolean*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Configure as edge-port.
Default	false
Introduced	16.0.R1

link-type *keyword*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Configure STP link-type
Default	pt-pt
Options	pt-pt, shared
Introduced	16.0.R1

path-cost *number*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Configure path-cost
Range	1 to 200000000
Default	10
Introduced	16.0.R1

priority *number*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Configure STP priority
Range	0 to 255
Default	128
Introduced	16.0.R1

root-guard *boolean*

Context	**configure service pw-template** *pw-template-name* **stp**
Description	Enable/disable STP root-guard
Default	false
Introduced	16.0.R1

vc-type *keyword*

Context	**configure service pw-template** *pw-template-name*
Description	Type of virtual circuit associated with the SDP bind.
Default	ether
Options	ether, vlan
Introduced	16.0.R1

vlan-vc-tag *number*

Context	**configure service pw-template** *pw-template-name*
Description	VLAN VC tag
Range	0 to 4094
Introduced	16.0.R1

sdp [sdp-id] *number*

Context	**configure service**
Description	Enter the sdp context
Introduced	16.0.R1

[sdp-id] *number*

Context	**configure service sdp** *number*
Description	Service Distribution Point (SDP) identifier
Range	1 to 32767
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service sdp** *number*
Description	Policy to use to collect accounting statistics on this SDP. The value zero indicates that default accounting policy to be used, if one exists.
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service sdp** *number*
Description	Administrative state of SDP
Default	disable
Options	enable, disable
Introduced	16.0.R1

adv-mtu-override *boolean*

Context	**configure service sdp** *number*
Description	Whether the advertised MTU of a VLL spoke SDP bind should include the 14-byte L2 header, so that it is backward compatible with pre-2.0 software.
Default	false
Introduced	16.0.R1

allow-fragmentation *boolean*

Context	**configure service sdp** *number*
Description	Whether to allow gre or gre-eth-bridged encapsulated packets to be sent without setting the DF bit.
Default	false
Introduced	16.0.R1

bgp-tunnel *boolean*

Context	**configure service sdp** *number*
Description	Whether the transport tunnel is BGP.
Default	false
Introduced	16.0.R1

booking-factor *number*

Context	**configure service sdp** *number*
Description	Percentage of the SDP max available bandwidth for VLL call admission. When the value is zero (0), no new VLL spoke-sdp bindings with non-zero bandwidth are permitted with this SDP. It is used to calculate the max SDP available bandwidth. Overbooking, >100% is allowed.
Range	0 to 1000
Default	100
Introduced	16.0.R1

class-forwarding

Context	**configure service sdp** *number*
Description	Enter the class-forwarding context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service sdp** *number* **class-forwarding**
Description	Administrative state of class-based forwarding on this SDP
Default	disable
Options	enable, disable
Introduced	16.0.R1

default-lsp *string*

Context	**configure service sdp** *number* **class-forwarding**
Description	LSP name that is used as a default when class-based forwarding is enabled on this SDP.
Reference	configure **service sdp** *number* **lsp** *string*
Introduced	16.0.R1
Notes	This element is mandatory

enforce-diffserv-lsp-fc *boolean*

Context	**configure service sdp** *number* **class-forwarding**
Description	Whether service manager must validate with RSVP the support of the FC by the LSP.
Default	false
Introduced	16.0.R1

fc [fc-name] *keyword*

Context	**configure service sdp** *number* **class-forwarding**
Description	Enter the fc context
Introduced	16.0.R1

[fc-name] *keyword*

Context	**configure service sdp** *number* **class-forwarding fc** *keyword*
Description	Forwarding class for which this mapping is defined.
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R1
Notes	This element is part of a list key

lsp *string*

Context	**configure service sdp** *number* **class-forwarding fc** *keyword*
Description	LSP name that traffic corresponding to the forwarding class will be forwarded on. It MUST be specified at row creation time.
Reference	configure **service sdp** *number* **lsp** *string*
Introduced	16.0.R1
Notes	This element is mandatory

multicast-lsp *string*

Context	**configure service sdp** *number* **class-forwarding**
Description	LSP name that all multicast traffic will be forwarded on when class-based forwarding is enabled on this SDP.
Reference	configure **service sdp** *number* **lsp** *string*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service sdp** *number*
Description	Collect accounting statistics for this SDP
Default	false
Introduced	16.0.R1

delivery-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service sdp** *number*
Description	Specifies the type of delivery used by this SDP
Default	gre
Options	gre, mpls, l2tpv3, gre-eth-bridged
Introduced	16.0.R1

description *string*

Context	**configure service sdp** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

far-end

Context	**configure service sdp** *number*
Description	Enter the far-end context
Introduced	16.0.R1

global-id *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number* **far-end**
Description	Specifies the Global ID of the far-end.
Range	1 to 4294967295
Introduced	16.0.R3
Notes	This element is part of a choice

ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number* **far-end**
Description	Specifies the IP address of the far-end.
Introduced	16.0.R3
Notes	This element is part of a choice

node-id *ipv4-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number* **far-end**
Description	Specifies the Node ID of the far-end.
Introduced	16.0.R3
Notes	This element is part of a choice

keep-alive

Context	**configure service sdp** *number*
Description	Enter the keep-alive context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service sdp** *number* **keep-alive**
Description	Administrative state of the keepalive protocol for the operating status of this SDP
Default	disable
Options	enable, disable
Introduced	16.0.R1

hello-time *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number* **keep-alive**
Description	How often the SDP Echo Request messages are transmitted on this SDP.
Range	1 to 3600
Default	10
Units	seconds
Introduced	16.0.R1

hold-down-time *number*

Context	**configure service sdp** *number* **keep-alive**
Description	Amount of time to wait before the keep-alive operating status is eligible to enter the 'alive' state.
Range	0 to 3600
Default	10
Units	seconds
Introduced	16.0.R1

maximum-drop-count *number*

Context	**configure service sdp** *number* **keep-alive**
Description	Maximum number of consecutive SDP Echo Request messages that can be unacknowledged before the keep-alive protocol reports a fault.
Range	1 to 5
Default	3
Introduced	16.0.R1

message-length *number*

Context	**configure service sdp** *number* **keep-alive**
Description	Length of the SDP Echo Request messages transmitted on this SDP. The default value of zero indicates that the message length should be equal to the SDP's operating path MTU
Range	40 to 9198
Introduced	16.0.R1

timeout *number*

Context	**configure service sdp** *number* **keep-alive**
Description	Number of seconds to wait for an SDP Echo Response message before declaring a timeout.
Range	1 to 10
Default	5
Units	seconds
Introduced	16.0.R1

ldp *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number*
Description	LSPs to be signaled by LDP and not provisioned by static, or RSVP-signaled LSPs
Default	false
Introduced	16.0.R1

local-end (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number*
Description	IP address of the local end of the tunnel defined by this SDP.
Introduced	16.0.R1

lsp [lsp-name] *string*

Context	**configure service sdp** *number*
Description	Enter the lsp context
Max. Elements	16
Introduced	16.0.R1

[lsp-name] *string*

Context	**configure service sdp** *number* **lsp** *string*
Description	LSP name.
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

metric *number*

Context	**configure service sdp** *number*
Description	Metric to be used within the Tunnel Table Manager for decision making purposes. When multiple SDPs going to the same destination exist, this value is used as a tie-breaker by Tunnel Table Manager users like MP-BGP to select route with lower value.
Range	1 to 65535
Introduced	16.0.R1

mixed-lsp-mode

Context	**configure service sdp** *number*
Description	Enter the mixed-lsp-mode context
Introduced	16.0.R1

revert-time (*number* | *keyword*)

Context	**configure service sdp** *number* **mixed-lsp-mode**
Description	Time to wait before reverting back from LDP to the configured LSPs, after having failed over to LDP.
Default	immediate
Introduced	16.0.R1

network-domain *string*

Context	**configure service sdp** *number*
Description	Network-domain name this SDP is associated with. The network-domain defines the list of network interfaces this SDP can send traffic on.
Reference	configure **router** *string* **network-domains network-domain** *string*
Introduced	16.0.R1

path-mtu *number*

Context	**configure service sdp** *number*
Description	Desired largest service frame size (in octets) that can be transmitted through this SDP to the far-end ESR, without requiring the packet to be fragmented. The default value of zero indicates that the path MTU should be computed dynamically from the corresponding MTU of the tunnel.
Range	576 to 9194
Units	bytes
Introduced	16.0.R1

pbb-etype *etype-value*

Context	**configure service sdp** *number*
Description	Ethertype used in frames sent out on this SDP when VC type is 'vlan' for Provider Backbone Bridging frames as 0xXXYY with range 0x0600-0xFFFF.
String Length	5 to 6
Default	0x88E7
Introduced	16.0.R1

pw-port

Context	**configure service sdp** *number*
Description	Enter the pw-port context
Introduced	16.0.R4

binding-port *port*

Context	**configure service sdp** *number* **pw-port**
Description	Binding port
Introduced	16.0.R4

sdp-group [group-name] *string*

Context	**configure service sdp** *number*
Description	Enter the sdp-group context
Introduced	16.0.R1

[group-name] *string*

Context	**configure service sdp** *number* **sdp-group** *string*
Description	Service Distribution Point (SDP) SDP Group Name.
Reference	configure **service sdp-group group-name** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

signaling *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number*
Description	Signaling protocol used to obtain the ingress and egress labels used in frames transmitted and received on this SDP. When the value is 'off' then the labels are manually assigned at the time the SDP is bound to a service. Default value of this object is set to 'off' when SDP delivery-type is set to 'l2tpv3' otherwise default value is set to 'tldp'.
Options	off, tldp, bgp
Introduced	16.0.R1

source-bmac-lsb

Context **configure service sdp** *number*

Description Enter the source-bmac-lsb context

Introduced 16.0.R1

control-pw-vc-id *number*

Context **configure service sdp** *number* **source-bmac-lsb**

Description Spoke-SDP VC identifier to be used as a control pseudo-wire to determine whether Shortest Path Bridging Module (SPBM) advertises the virtual backbone MAC.

Range 1 to 4294967295

Introduced 16.0.R1

value *bmac-lsb-no-zero*

Context **configure service sdp** *number* **source-bmac-lsb**

Description 16 least significant bits (lsb as 00:00 or 00-00) which when combined with the 32 most significant bits of the PBB source-bmac forms the virtual backbone MAC address.

Introduced 16.0.R1

sr-isis *boolean*

Context **configure service sdp** *number*

Description Whether Segment Routing is enabled for IS-IS.

Default false

Introduced 16.0.R1

sr-ospf *boolean*

Context **configure service sdp** *number*

Description Whether Segment Routing is enabled for OSPF.

Default false

Introduced 16.0.R1

tunnel-far-end (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service sdp** *number*
Description	IP address of the remote of the tunnel defined by this SDP.
Introduced	16.0.R1

vlan-vc-etype *etype-value*

Context	**configure service sdp** *number*
Description	Ethertype used in frames sent out this SDP, when the VC type is 'vlan' as 0xXXYY with range 0x0600-0xFFFF.
String Length	5 to 6
Default	0x8100
Introduced	16.0.R1

weighted-ecmp *boolean*

Context	**configure service sdp** *number*
Description	Allow weighted load-balancing on an SDP
Default	false
Introduced	16.0.R1

sdp-group

Context	**configure service**
Description	Enter the sdp-group context
Introduced	16.0.R1

group-name [group-name] *string*

Context	**configure service sdp-group**
Description	Enter the group-name context
Introduced	16.0.R1

[group-name] *string*

Context	**configure service sdp-group group-name** *string*
Description	Service Distribution Point (SDP) Group name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

value *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service sdp-group group-name** *string*
Description	Value associated with SDP Group.
Range	0 to 31
Introduced	16.0.R1
Notes	This element is mandatory

system

Context	**configure service**
Description	Enter the system context
Introduced	16.0.R1

bgp

Context	**configure service system**
Description	Enter the bgp context
Introduced	16.0.R1

evpn

Context	**configure service system bgp**
Description	Enter the evpn context
Introduced	16.0.R1

ad-per-es-route

Context	**configure service system bgp evpn**
Description	Enter the ad-per-es-route context
Introduced	16.0.R1

route-distinguisher-ip-address *ipv4-address*

Context	**configure service system bgp evpn ad-per-es-route**
Description	IP address for route distinguisher for EVPN AD-ES routes
Introduced	16.0.R1

route-target-type *keyword*

Context	**configure service system bgp evpn ad-per-es-route**
Description	Method for the AD per-ES routes advertisement
Default	evi-route-target
Options	evi-route-target, evi-route-target-set
Introduced	16.0.R1

ethernet-segment [ethernet-segment-name] *string*

Context	**configure service system bgp evpn**
Description	Enter the ethernet-segment context
Max. Elements	4095
Introduced	16.0.R1

[ethernet-segment-name] *string*

Context	**configure service system bgp evpn ethernet-segment** *string*
Description	Specify name for Ethernet segment
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service system bgp evpn ethernet-segment** *string*
Description	Administrative state of the Ethernet segment
Default	disable
Options	enable, disable
Introduced	16.0.R1

association

Context	**configure service system bgp evpn ethernet-segment** *string*
Description	Enter the association context
Introduced	16.0.R1

lag [lag-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association**
Description	Enter the **lag** context
Max. Elements	1
Introduced	16.0.R1

[lag-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string*
Description	Lag multi-homed with this Ethernet segment entry
Reference	configure **lag** *number*
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

virtual-ranges

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string*
Description	Enter the **virtual-ranges** context
Introduced	16.0.R1

dot1q

Context **configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges**

Description Enter the **dot1q** context

Introduced 16.0.R1

q-tag [start] (*number* | *keyword*)

Context **configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges dot1q**

Description Enter the **q-tag** context

Max. Elements 8

Introduced 16.0.R1

[start] (*number* | *keyword*)

Context **configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges dot1q q-tag** (*number* | *keyword*)

Description Starting value of the dot1q range associated with a virtual ethernet segment

Introduced 16.0.R1

Notes This element is part of a choice

This element is part of a list key

end (*number* | *keyword*)

Context **configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges dot1q q-tag** (*number* | *keyword*)

Description Ending value of the dot1q range associated with a virtual ethernet segment

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

qinq

Context **configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges**

Description Enter the **qinq** context

Introduced 16.0.R1

s-tag [start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq**
Description	Enter the **s-tag** context
Max. Elements	8
Introduced	16.0.R1

[start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq s-tag** (*number* | *keyword*)
Description	Starting value of the qinq stag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq s-tag** (*number* | *keyword*)
Description	Ending value of the qinq stag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

s-tag-c-tag [s-tag] (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq**
Description	Enter the **s-tag-c-tag** context
Max. Elements	8
Introduced	16.0.R1

[s-tag] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Starting value of the qinq s-tag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

c-tag-start (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Starting value of the qinq c-tag range associated with a specific s-tag on a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

c-tag-end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association lag** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Ending value of the qinq c-tag range associated with a specific s-tag on a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

network-interconnect-vxlan [network-interconnect-vxlan-id] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association**
Description	Enter the **network-interconnect-vxlan** context
Max. Elements	1
Introduced	16.0.R1

[network-interconnect-vxlan-id] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association network-interconnect-vxlan** *number*
Description	Vxlan instance id multi-homed with this Ethernet segment entry.
Range	1
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is part of a list key

virtual-ranges

Context	**configure service system bgp evpn ethernet-segment** *string* **association network-interconnect-vxlan** *number*
Description	Enter the **virtual-ranges** context
Introduced	16.0.R1

service-id [start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association network-interconnect-vxlan** *number* **virtual-ranges**
Description	Enter the **service-id** context
Max. Elements	8
Introduced	16.0.R1

[start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association network-interconnect-vxlan** *number* **virtual-ranges service-id** *number*
Description	Starting value of the service id range associated with a virtual ethernet segment
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is part of a list key

end *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association network-interconnect-vxlan** *number* **virtual-ranges service-id** *number*
Description	Ending value of the service id range associated with a virtual ethernet segment
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

port [port-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association**
Description	Enter the **port** context
Max. Elements	1
Introduced	16.0.R1

[port-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string*
Description	Port multi-homed with this Ethernet segment entry
Reference	configure **port** *port*
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

virtual-ranges

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string*
Description	Enter the **virtual-ranges** context
Introduced	16.0.R1

dot1q

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges**
Description	Enter the **dot1q** context
Introduced	16.0.R1

q-tag [start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges dot1q**
Description	Enter the **q-tag** context
Max. Elements	8
Introduced	16.0.R1

[start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges dot1q q-tag** (*number* | *keyword*)
Description	Starting value of the dot1q range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges dot1q q-tag** (*number* | *keyword*)
Description	Ending value of the dot1q range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

qinq

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges**
Description	Enter the **qinq** context
Introduced	16.0.R1

s-tag [start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq**
Description	Enter the **s-tag** context
Max. Elements	8
Introduced	16.0.R1

[start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq s-tag** (*number* | *keyword*)
Description	Starting value of the qinq stag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq s-tag** (*number* | *keyword*)
Description	Ending value of the qinq stag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

s-tag-c-tag [s-tag] (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq**
Description	Enter the **s-tag-c-tag** context
Max. Elements	8
Introduced	16.0.R1

[s-tag] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Starting value of the qinq s-tag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

c-tag-start (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Starting value of the qinq c-tag range associated with a specific s-tag on a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

c-tag-end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association port** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Ending value of the qinq c-tag range associated with a specific s-tag on a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

pw-port [pw-port-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association**
Description	Enter the **pw-port** context
Max. Elements	1
Introduced	16.0.R1

[pw-port-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string*
Description	Pw-port multi-homed with this Ethernet segment entry
Reference	configure **pw-port** *number*
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is part of a list key

virtual-ranges

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string*
Description	Enter the **virtual-ranges** context
Introduced	16.0.R1

dot1q

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges**
Description	Enter the **dot1q** context
Introduced	16.0.R1

q-tag [start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges dot1q**
Description	Enter the **q-tag** context
Max. Elements	8
Introduced	16.0.R1

[start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges dot1q q-tag** (*number* | *keyword*)
Description	Starting value of the dot1q range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice
	This element is part of a list key

end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges dot1q q-tag** (*number* | *keyword*)
Description	Ending value of the dot1q range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

qinq

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges**
Description	Enter the **qinq** context
Introduced	16.0.R1

s-tag [start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq**
Description	Enter the **s-tag** context
Max. Elements	8
Introduced	16.0.R1

[start] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq s-tag** (*number* | *keyword*)
Description	Starting value of the qinq stag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq s-tag** (*number* | *keyword*)
Description	Ending value of the qinq stag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

s-tag-c-tag [s-tag] (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq**
Description	Enter the **s-tag-c-tag** context
Max. Elements	8
Introduced	16.0.R1

[s-tag] (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Starting value of the qinq s-tag range associated with a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

c-tag-start (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Starting value of the qinq c-tag range associated with a specific s-tag on a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

c-tag-end (*number* | *keyword*)

Context	**configure service system bgp evpn ethernet-segment** *string* **association pw-port** *string* **virtual-ranges qinq s-tag-c-tag** (*number* | *keyword*) **c-tag-start** (*number* | *keyword*)
Description	Ending value of the qinq c-tag range associated with a specific s-tag on a virtual ethernet segment
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

sdp [sdp-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association**
Description	Enter the **sdp** context
Max. Elements	1
Introduced	16.0.R1

[sdp-id] *string*

Context	**configure service system bgp evpn ethernet-segment** *string* **association sdp** *string*
Description	Sdp multi-homed with this Ethernet segment entry
Reference	configure **service sdp** *number*
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

virtual-ranges

Context	**configure service system bgp evpn ethernet-segment** *string* **association sdp** *string*
Description	Enter the **virtual-ranges** context
Introduced	16.0.R1

vc-id [start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association sdp** *string* **virtual-ranges**
Description	Enter the **vc-id** context
Max. Elements	8
Introduced	16.0.R1

[start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association sdp** *string* **virtual-ranges vc-id** *number*
Description	Starting value of the vc-id range associated with a virtual ethernet segment
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

end *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **association sdp** *string* **virtual-ranges vc-id** *number*
Description	Ending value of the vc-id range associated with a virtual ethernet segment
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

df-election

Context	**configure service system bgp evpn ethernet-segment** *string*
Description	Enter the df-election context
Introduced	16.0.R1

es-activation-timer *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election**
Description	Activation timer per Ethernet segment
Range	0 to 100
Units	seconds
Introduced	16.0.R1

manual

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election**
Description	Enter the manual context
Introduced	16.0.R1

evi [start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual**
Description	Enter the evi context
Introduced	16.0.R1

[start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual evi** *number*
Description	Starting value of the EVI range associated with service-carving of the associated ethernet segment
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual evi** *number*
Description	Ending value of the EVI range associated with service-carving of the associated ethernet segment
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

isid [start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual**
Description	Enter the isid context
Introduced	16.0.R1

[start] *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual isid** *number*
Description	Starting value of the ISID range associated with service-carving of the associated ethernet segment
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual isid** *number*
Description	Ending value of the ISID range associated with service-carving of the associated ethernet segment
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory

preference

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual**
Description	Enter the preference context
Introduced	16.0.R1

mode *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service system bgp evpn ethernet-segment** *string* **df-election manual preference**
Description	Method used to elect the DF
Default	revertive
Options	revertive, non-revertive
Introduced	16.0.R1

value *number*

Context **configure service system bgp evpn ethernet-segment** *string* **df-election manual preference**

Description Preference that is used to elect the designated forwarder

Range 0 to 65535

Default 32767

Introduced 16.0.R1

service-carving-mode *keyword*

Context **configure service system bgp evpn ethernet-segment** *string* **df-election**

Description Mode of service carving enabled per EVPN associated with this Ethernet segment entry

Default auto

Options auto, manual, off

Introduced 16.0.R1

esi *ethernet-segment-id-mac-based*

Context **configure service system bgp evpn ethernet-segment** *string*

Description Ethernet segment identifier

Introduced 16.0.R1

multi-homing-mode *keyword*

Context **configure service system bgp evpn ethernet-segment** *string*

Description Multi-homing mode of the Ethernet segment

Default none

Options none, single-active, single-active-no-esi-label, all-active

Introduced 16.0.R1

orig-ip (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service system bgp evpn ethernet-segment** *string*

Description Specifies the ES route's originating IP address

Introduced 16.0.R4

pbb

Context **configure service system bgp evpn ethernet-segment** *string*

Description Enter the pbb context

Introduced 16.0.R1

es-bmac-table-size *number*

Context **configure service system bgp evpn ethernet-segment** *string* **pbb**

Description Size of virtual backbone mac table for this ethernet segment

Range 1 to 511999

Default 8

Introduced 16.0.R1

source-bmac-lsb *bmac-lsb-no-zero*

Context **configure service system bgp evpn ethernet-segment** *string* **pbb**

Description 16 least significant bits (lsb) which when combined with the 32 most significant bits of the PBB source-bmac in the associated service, forms the virtual backbone MAC address

Introduced 16.0.R1

route-next-hop (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service system bgp evpn ethernet-segment** *string*

Description Specifies the next-hop IP for ES and AD per-ES routes

Introduced 16.0.R4

type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service system bgp evpn ethernet-segment** *string*

Description Type of the ethernet segment.

Default none

Options none, virtual

Introduced 16.0.R1

etree-leaf-label *boolean*

Context	**configure service system bgp evpn**
Description	E-Tree leaf label for PE
Default	false
Introduced	16.0.R1

route-distinguisher *vpn-route-distinguisher*

Context	**configure service system bgp evpn**
Description	Route distinguisher for ES routes
Introduced	16.0.R1

bgp-auto-rd-range

Context	**configure service system**
Description	Enter the bgp-auto-rd-range context
Introduced	16.0.R1

community-value

Context	**configure service system bgp-auto-rd-range**
Description	Enter the community-value context
Introduced	16.0.R1

end *number*

Context	**configure service system bgp-auto-rd-range community-value**
Description	End of BGP route-distinguisher community value.
Range	1 to 65535
Introduced	16.0.R1

start *number*

Context	**configure service system bgp-auto-rd-range community-value**
Description	Start of BGP route-distinguisher community value.
Range	1 to 65535
Introduced	16.0.R1

ip-address *ipv4-address*

Context **configure service system bgp-auto-rd-range**

Description IP address used for selecting route-distinguisher.

Introduced 16.0.R1

extended-default-qinq-sap-lookup *boolean*

Context **configure service system**

Description Control the forwarding of the packets

Introduced 16.0.R1

fdb

Context **configure service system**

Description Enter the fdb context

Introduced 16.0.R1

table-size *number*

Context **configure service system fdb**

Description Maximum FDB entries in the system

Range 4095 to 2047999

Introduced 16.0.R1

gre-eth-bridged

Context **configure service system**

Description Enter the gre-eth-bridged context

Introduced 16.0.R1

tunnel-termination [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service system gre-eth-bridged**

Description Enter the tunnel-termination context

Introduced 16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service system gre-eth-bridged tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Non system IP address to terminate the GRE tunnel
Introduced	16.0.R1
Notes	This element is part of a list key

fpe-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service system gre-eth-bridged tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	FPE ID
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R1
Notes	This element is mandatory

vpn-gre-source-ip *ipv4-unicast-address*

Context	**configure service system**
Description	VPN GRE source ip-address
Introduced	16.0.R4

vxlan

Context	**configure service system**
Description	Enter the vxlan context
Introduced	16.0.R1

assisted-replication

Context	**configure service system vxlan**
Description	Enter the assisted-replication context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context	**configure service system vxlan assisted-replication**
Description	VXLAN assisted replication address
Introduced	16.0.R1

tunnel-termination [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service system vxlan**
Description	Enter the tunnel-termination context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service system vxlan tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Non system IP address to terminate the VXLAN
Introduced	16.0.R4
Notes	This element is part of a list key

fpe-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service system vxlan tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	FPE id for this entry
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R4
Notes	This element is mandatory

template

Context	**configure service**
Description	Enter the template context
Introduced	16.0.R1

epipe-sap-template [name] *string*

Context	**configure service template**
Description	Enter the epipe-sap-template context
Introduced	16.0.R1

[name] *string*

Context	**configure service template epipe-sap-template** *string*
Description	SAP template name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

egress

Context	**configure service template epipe-sap-template** *string*
Description	Enter the egress context
Introduced	16.0.R1

filter

Context	**configure service template epipe-sap-template** *string* **egress**
Description	Enter the filter context
Introduced	16.0.R1

ip *string*

Context	**configure service template epipe-sap-template** *string* **egress filter**
Description	IPv4 filter identifier
String Length	1 to 64
Introduced	16.0.R1

ipv6 *string*

Context **configure service template epipe-sap-template** *string* **egress filter**
Description IPv6 filter identifier
String Length 1 to 64
Introduced 16.0.R1

mac *string*

Context **configure service template epipe-sap-template** *string* **egress filter**
Description MAC filter ID
String Length 1 to 64
Introduced 16.0.R1

qos

Context **configure service template epipe-sap-template** *string* **egress**
Description Enter the qos context
Introduced 16.0.R1

policy-name *string*

Context **configure service template epipe-sap-template** *string* **egress qos**
Description Sap-egress policy name applied to this SAP
String Length 1 to 64
Introduced 16.0.R1

ingress

Context **configure service template epipe-sap-template** *string*
Description Enter the ingress context
Introduced 16.0.R1

filter

Context **configure service template epipe-sap-template** *string* **ingress**
Description Enter the filter context
Introduced 16.0.R1

ip *string*

Context **configure service template epipe-sap-template** *string* **ingress filter**

Description IPv4 filter identifier

String Length 1 to 64

Introduced 16.0.R1

ipv6 *string*

Context **configure service template epipe-sap-template** *string* **ingress filter**

Description IPv6 filter identifier

String Length 1 to 64

Introduced 16.0.R1

mac *string*

Context **configure service template epipe-sap-template** *string* **ingress filter**

Description MAC filter ID

String Length 1 to 64

Introduced 16.0.R1

qos

Context **configure service template epipe-sap-template** *string* **ingress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context **configure service template epipe-sap-template** *string* **ingress qos**

Description Sap-ingress policy name applied to this SAP

String Length 1 to 64

Introduced 16.0.R1

queuing-type *keyword*

Context	**configure service template epipe-sap-template** *string* **ingress qos**
Description	Ingress queuing type
Options	shared, multipoint-shared
Introduced	16.0.R1

vpls-sap-template [name] *string*

Context	**configure service template**
Description	Enter the vpls-sap-template context
Introduced	16.0.R1

[name] *string*

Context	**configure service template vpls-sap-template** *string*
Description	SAP template name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

egress

Context	**configure service template vpls-sap-template** *string*
Description	Enter the egress context
Introduced	16.0.R1

agg-rate

Context	**configure service template vpls-sap-template** *string* **egress**
Description	Enter the agg-rate context
Introduced	16.0.R1

limit-unused-bandwidth *boolean*

Context **configure service template vpls-sap-template** *string* **egress agg-rate**

Description Enable aggregate rate overrun protection

Default false

Introduced 16.0.R1

queue-frame-based-accounting *boolean*

Context **configure service template vpls-sap-template** *string* **egress agg-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate *number*

Context **configure service template vpls-sap-template** *string* **egress agg-rate**

Description Maximum total rate of all egress queues

Range 1 to 3200000000

Introduced 16.0.R1

filter

Context **configure service template vpls-sap-template** *string* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service template vpls-sap-template** *string* **egress filter**

Description IPv4 filter identifier

String Length 1 to 64

Introduced 16.0.R1

ipv6 *string*

Context **configure service template vpls-sap-template** *string* **egress filter**

Description IPv6 filter identifier

String Length 1 to 64

Introduced 16.0.R1

mac *string*

Context **configure service template vpls-sap-template** *string* **egress filter**

Description MAC filter ID

String Length 1 to 64

Introduced 16.0.R1

policer-control-policy

Context **configure service template vpls-sap-template** *string* **egress**

Description Enter the policer-control-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service template vpls-sap-template** *string* **egress policer-control-policy**

Description Egress policer control policy

String Length 1 to 32

Introduced 16.0.R1

qos

Context **configure service template vpls-sap-template** *string* **egress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context **configure service template vpls-sap-template** *string* **egress qos**

Description Sap-egress policy name applied to this SAP

String Length 1 to 64

Introduced 16.0.R1

qinq-mark-top-only *boolean*

Context **configure service template vpls-sap-template** *string* **egress qos**

Description Mark top Q-tags

Default false

Introduced 16.0.R1

scheduler-policy

Context **configure service template vpls-sap-template** *string* **egress**

Description Enter the scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service template vpls-sap-template** *string* **egress scheduler-policy**

Description Egress QoS scheduler

String Length 1 to 32

Introduced 16.0.R1

ingress

Context **configure service template vpls-sap-template** *string*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service template vpls-sap-template** *string* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service template vpls-sap-template** *string* **ingress filter**

Description IPv4 filter identifier

String Length 1 to 64

Introduced 16.0.R1

ipv6 *string*

Context **configure service template vpls-sap-template** *string* **ingress filter**

Description IPv6 filter identifier

String Length 1 to 64

Introduced 16.0.R1

mac *string*

Context **configure service template vpls-sap-template** *string* **ingress filter**

Description MAC filter ID

String Length 1 to 64

Introduced 16.0.R1

policer-control-policy

Context **configure service template vpls-sap-template** *string* **ingress**

Description Enter the policer-control-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service template vpls-sap-template** *string* **ingress policer-control-policy**

Description Ingress policer control policy

String Length 1 to 32

Introduced 16.0.R1

qos

Context **configure service template vpls-sap-template** *string* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service template vpls-sap-template** *string* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policy-name *string*

Context **configure service template vpls-sap-template** *string* **ingress qos**

Description Sap-ingress policy name applied to this SAP

String Length 1 to 64

Introduced 16.0.R1

queuing-type *keyword*

Context **configure service template vpls-sap-template** *string* **ingress qos**

Description Ingress queuing type

Options shared, multipoint-shared

Introduced 16.0.R1

scheduler-policy

Context **configure service template vpls-sap-template** *string* **ingress**

Description Enter the scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service template vpls-sap-template** *string* **ingress scheduler-policy**
Description Ingress QoS scheduler
String Length 1 to 32
Introduced 16.0.R1

upnp

Context **configure service**
Description Enter the upnp context
Introduced 16.0.R1

policy [name] *external-named-item*

Context **configure service upnp**
Description Enter the policy context
Max. Elements 255
Introduced 16.0.R1

[name] *external-named-item*

Context **configure service upnp policy** *external-named-item*
Description Policy name
Introduced 16.0.R1
Notes This element is part of a list key

description *string*

Context **configure service upnp policy** *external-named-item*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

mapping-limit *number*

Context	**configure service upnp policy** *external-named-item*
Description	Maximum number of UPnP mappings per subscriber
Range	1 to 256
Default	256
Introduced	16.0.R1

port *number*

Context	**configure service upnp policy** *external-named-item*
Description	HTTP TCP port to which this UPnP IGD listens
Range	1 to 65535
Default	5000
Introduced	16.0.R1

strict-mode *boolean*

Context	**configure service upnp policy** *external-named-item*
Description	Allow changes to existing UPnP mapping only from same UPnP client
Default	false
Introduced	16.0.R1

vpls [service-name] *service-name*

Context	**configure service**
Description	Enter the vpls context
Introduced	16.0.R1

[service-name] *service-name*

Context	**configure service vpls** *service-name*
Description	Name of the service
String Length	1 to 64
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name*
Description	Administrative state of the mirror destination service
Default	disable
Options	enable, disable
Introduced	16.0.R1

bgp [bgp-instance] *number*

Context	**configure service vpls** *service-name*
Description	Enter the bgp context
Introduced	16.0.R1

[bgp-instance] *number*

Context	**configure service vpls** *service-name* **bgp** *number*
Description	BGP instance
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

pw-template-binding [pw-template-name] *string*

Context	**configure service vpls** *service-name* **bgp** *number*
Description	Enter the pw-template-binding context
Max. Elements	100
Introduced	16.0.R1

[pw-template-name] *string*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	PW template policy name
Reference	configure **service pw-template** *pw-template-name*
Introduced	16.0.R1
Notes	This element is part of a list key

bfd-liveness *boolean*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Enable BFD
Default	false
Introduced	16.0.R1

bfd-template *string*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	BFD template name for PW-Template binding
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

import-rt *route-target*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Import route-target communities
String Length	10 to 28
Max. Elements	5
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Oerational group to monitor
Reference	configure **service oper-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

oper-group *string*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

split-horizon-group *string*

Context	**configure service vpls** *service-name* **bgp** *number* **pw-template-binding** *string*
Description	Split horizon group
String Length	1 to 32
Introduced	16.0.R1

route-distinguisher (*keyword* | *vpn-route-distinguisher*)

Context	**configure service vpls** *service-name* **bgp** *number*
Description	High-order 6 bytes that are used as string to compose VSI-ID for use in NLRI
Introduced	16.0.R1

route-target

Context	**configure service vpls** *service-name* **bgp** *number*
Description	Enter the route-target context
Introduced	16.0.R1

export *route-target*

Context	**configure service vpls** *service-name* **bgp** *number* **route-target**
Description	Extended community name for default import policy
String Length	10 to 28
Introduced	16.0.R1

import *route-target*

Context	**configure service vpls** *service-name* **bgp** *number* **route-target**
Description	Extended community name for default import policy
String Length	10 to 28
Introduced	16.0.R1

vsi-export *string*

Context	**configure service vpls** *service-name* **bgp** *number*
Description	VSI export policies
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

vsi-import *string*

Context	**configure service vpls** *service-name* **bgp** *number*
Description	VSI import policies
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

bgp-ad

Context	**configure service vpls** *service-name*
Description	Enter the bgp-ad context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **bgp-ad**
Description	Administrative state of BGP AD
Default	disable
Options	enable, disable
Introduced	16.0.R1

vpls-id *vpls-id*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vpls** *service-name* **bgp-ad**
Description VPLS identifier as a 8-byte route distinguisher
Introduced 16.0.R1

vsi-id-prefix *ipv4-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vpls** *service-name* **bgp-ad**
Description VSI prefix value
Introduced 16.0.R1

bgp-evpn

Context **configure service vpls** *service-name*
Description Enter the bgp-evpn context
Introduced 16.0.R1

accept-ivpls-evpn-flush *boolean*

Context **configure service vpls** *service-name* **bgp-evpn**
Description Accept non-zero ethernet-tag MAC routes and process for CMAC flushing
Default false
Introduced 16.0.R1

evi *number*

Context **configure service vpls** *service-name* **bgp-evpn**
Description EVPN ID
Range 1 to 65535
Introduced 16.0.R1

incl-mcast-orig-ip *ipv4-unicast-address*

Context **configure service vpls** *service-name* **bgp-evpn**
Description Originating IP address
Introduced 16.0.R1

isid-route-target

Context	**configure service vpls** *service-name* **bgp-evpn**
Description	Enter the isid-route-target context
Introduced	16.0.R1

range [start] *number*

Context	**configure service vpls** *service-name* **bgp-evpn isid-route-target**
Description	Enter the range context
Max. Elements	8192
Introduced	16.0.R1

[start] *number*

Context	**configure service vpls** *service-name* **bgp-evpn isid-route-target range** *number*
Description	Starting value of the isid-range entry
Range	1 to 16777215
Default	1
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure service vpls** *service-name* **bgp-evpn isid-route-target range** *number*
Description	Ending value of the isid-range entry
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory

route-target *route-target*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn isid-route-target range** *number*
Description	Route for the ISID range
String Length	10 to 28
Introduced	16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn isid-route-target range** *number*
Description	Method used to support the PBB-EVPN ISID-based route target advertisement
Default	auto
Options	auto, configured
Introduced	16.0.R1

mac-duplication

Context	**configure service vpls** *service-name* **bgp-evpn**
Description	Enter the mac-duplication context
Introduced	16.0.R1

blackhole *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn mac-duplication**
Description	Enable black hole dup MAC configuration
Default	false
Introduced	16.0.R1

detect

Context	**configure service vpls** *service-name* **bgp-evpn mac-duplication**
Description	Enter the detect context
Introduced	16.0.R1

num-moves *number*

Context	**configure service vpls** *service-name* **bgp-evpn mac-duplication detect**
Description	BGP EVPN MAC duplication detection number of moves
Range	3 to 10
Default	5
Introduced	16.0.R1

window *number*

Context	**configure service vpls** *service-name* **bgp-evpn mac-duplication detect**
Description	BGP EVPN MAC duplication detection window
Range	1 to 15
Default	3
Units	minutes
Introduced	16.0.R1

retry (*number* | *keyword*)

Context	**configure service vpls** *service-name* **bgp-evpn mac-duplication**
Description	BGP EVPN MAC duplication retry
Range	2 to 60
Default	9
Units	minutes
Options	never
Introduced	16.0.R1

mpls [bgp-instance] *number*

Context	**configure service vpls** *service-name* **bgp-evpn**
Description	Enter the mpls context
Introduced	16.0.R1

[bgp-instance] *number*

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description	BGP instance
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description	Administrative state of BGP EVPN MPLS
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-bind-tunnel

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description	Enter the auto-bind-tunnel context
Introduced	16.0.R1

enforce-strict-tunnel-tagging *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel**
Description	Enable/disable enforcement of strict tunnel tagging
Default	false
Introduced	16.0.R4

resolution *keyword*

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel**
Description	Resolution method for tunnel selection
Default	none
Options	none, filter, any
Introduced	16.0.R1

resolution-filter

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel**

Description Enter the resolution-filter context

Introduced 16.0.R1

bgp *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Set BGP type for auto bind tunnel

Default false

Introduced 16.0.R1

ldp *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting LDP type for auto-bind-tunnel

Default false

Introduced 16.0.R1

rsvp *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting RSVP-TE type for auto-bind-tunnel

Default false

Introduced 16.0.R1

sr-isis *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting SR-ISIS type for auto-bind-tunnel

Default false

Introduced 16.0.R1

sr-ospf *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Segment Routing (SR) tunnel type programed by an OSPF instance in TTM

Default false

Introduced 16.0.R1

sr-te *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Enable/disable setting SR-TE type for auto-bind-tunnel

Default false

Introduced 16.0.R1

udp *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **auto-bind-tunnel resolution-filter**

Description Set UDP type for auto-bind-tunnel

Default false

Introduced 16.0.R1

control-word *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number*

Description Enable/disable setting the CW bit in the label message.

Default false

Introduced 16.0.R1

default-route-tag *one-byte-value*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number*

Description Default route tag to match against export policies: value as 0xXX.

Introduced 16.0.R4

ecmp *number*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description Maximum ECMP routes information
Range 1 to 32
Default 1
Introduced 16.0.R1

entropy-label *boolean*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description Enable/disable use of entropy-label.
Default false
Introduced 16.0.R1

fdb

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description Enter the fdb context
Introduced 16.0.R1

protected-src-mac-violation-action *keyword*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number* **fdb**
Description Action when a relearn request for a protected MAC is received
Options discard
Introduced 16.0.R1

force-vc-forwarding *keyword*

Context **configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description Forces vlan-vc-type forwarding in the data-path.
Options vlan
Introduced 16.0.R1

ingress-replication-bum-label *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description	Use the same label as the one advertised for unicast traffic
Default	false
Introduced	16.0.R1

send-tunnel-encap

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description	Enter the send-tunnel-encap context
Introduced	16.0.R1

mpls *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number* **send-tunnel-encap**
Description	Enable/disable MPLS encapsulation for this service.
Default	true
Introduced	16.0.R1

mpls-over-udp *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number* **send-tunnel-encap**
Description	Enable/disable MPLS over UDP encapsulation for this service.
Default	false
Introduced	16.0.R1

split-horizon-group *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn mpls** *number*
Description	Split horizon group
Reference	configure **service vpls** *service-name* **split-horizon-group** *string*
Introduced	16.0.R1

routes

Context	**configure service vpls** *service-name* **bgp-evpn**
Description	Enter the routes context
Introduced	16.0.R1

incl-mcast

Context	**configure service vpls** *service-name* **bgp-evpn routes**
Description	Enter the incl-mcast context
Introduced	16.0.R1

advertise-ingress-replication *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn routes incl-mcast**
Description	BGP EVPN IMET-IR route advertisement
Default	true
Introduced	16.0.R1

ip-prefix

Context	**configure service vpls** *service-name* **bgp-evpn routes**
Description	Enter the ip-prefix context
Introduced	16.0.R1

advertise *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn routes ip-prefix**
Description	Status for the IP prefix routes advertisement
Default	false
Introduced	16.0.R1

include-direct-interface-host *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn routes ip-prefix**
Description	BGP EVPN IP route advertisement
Default	false
Introduced	16.0.R1

mac-ip

Context	**configure service vpls** *service-name* **bgp-evpn routes**
Description	Enter the mac-ip context
Introduced	16.0.R1

advertise *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn routes mac-ip**
Description	Status for the BGP-EVPN MAC/IP routes advertisement
Default	true
Introduced	16.0.R1

cfm-mac *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn routes mac-ip**
Description	Enable/disable the advertisement of MEP, MIP, and VMEP MAC addresses over the BGP EVPN.
Default	false
Introduced	16.0.R1

unknown-mac *boolean*

Context	**configure service vpls** *service-name* **bgp-evpn routes mac-ip**
Description	Enable/disable the advertisement of MEP, MIP, and VMEP MAC addresses over the BGP EVPN.
Default	false
Introduced	16.0.R1

vxlan [bgp-instance] *number*

Context	**configure service vpls** *service-name* **bgp-evpn**
Description	Enter the vxlan context
Introduced	16.0.R1

[bgp-instance] *number*

Context	**configure service vpls** *service-name* **bgp-evpn vxlan** *number*
Description	BGP instance
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **bgp-evpn vxlan** *number*
Description	Administrative state of BGP EVPN VXLAN
Default	disable
Options	enable, disable
Introduced	16.0.R1

default-route-tag *one-byte-value*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn vxlan** *number*
Description	Default route tag to match against export policies: value as 0xXX.
Introduced	16.0.R4

send-incl-mcast-ir-on-ndf *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn vxlan** *number*
Description	Allow IMET-IR on NDF
Default	true
Introduced	16.0.R1

send-tunnel-encap *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn vxlan** *number*
Description	Enable/Disable sending Vxlan Encap.
Default	true
Introduced	16.0.R1

vxlan-instance *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-evpn vxlan** *number*
Description	VXLAN instance
Reference	configure **service vpls** *service-name* **vxlan instance** *number*
Introduced	16.0.R1
Notes	This element is mandatory

bgp-mh-site [site-name] *string*

Context	**configure service vpls** *service-name*
Description	Enter the bgp-mh-site context
Introduced	16.0.R1

[site-name] *string*

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Name for the specific site
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

activation-timer *number*

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Time that the local sites are in standby status, waiting for BGP updates
Range	0 to 100
Units	seconds
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Administrative state of the site
Default	disable
Options	enable, disable
Introduced	16.0.R1

boot-timer *number*

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Time that system waits after node reboot and before it runs DF election algorithm
Range	0 to 600
Units	seconds
Introduced	16.0.R1

failed-threshold (*number* | *keyword*)

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Threshold for the site to be declared down
Default	all
Introduced	16.0.R1

id *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	ID for the site
Range	1 to 65535
Introduced	16.0.R1

mesh-sdp-binds

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Specify if a mesh-sdp-binding is associated with this site
Introduced	16.0.R1
Notes	This element is part of a choice

min-down-timer *number*

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Minimum downtime for BGP multi-homing site after transition from up to down
Range	0 to 100
Units	seconds
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Operational group to monitor
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

sap *sap*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	SAP to be associated with this site
Introduced	16.0.R1
Notes	This element is part of a choice

shg-name *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	Split horizon group to be associated with this site
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

spoke-sdp *sdp-bind-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **bgp-mh-site** *string*
Description	SDP to be associated with this site
String Length	3 to 16
Introduced	16.0.R1
Notes	This element is part of a choice

bgp-vpls

Context	**configure service vpls** *service-name*
Description	Enter the bgp-vpls context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **bgp-vpls**
Description	Administrative state of the service
Default	disable
Options	enable, disable
Introduced	16.0.R1

maximum-ve-id *number*

Context	**configure service vpls** *service-name* **bgp-vpls**
Description	Maximum vpls-edge id for BGP-VPLS
Range	1 to 65535
Introduced	16.0.R1

ve

Context	**configure service vpls** *service-name* **bgp-vpls**
Description	Enter the ve context
Introduced	16.0.R1

id *number*

Context	**configure service vpls** *service-name* **bgp-vpls ve**
Description	VPLS edge identifier
Range	1 to 65535
Introduced	16.0.R1

name *string*

Context	**configure service vpls** *service-name* **bgp-vpls ve**
Description	Name of VPLS edge.
String Length	1 to 32
Introduced	16.0.R1

capture-sap [sap-id] *sap*

Context	**configure service vpls** *service-name*
Description	Enter the capture-sap context
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Administrative state of the SAP
Default	enable
Options	enable, disable
Introduced	16.0.R1

allow-dot1q-msaps *boolean*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Create IEEE 802.1q Managed SAP's on an IEEE 802.1ad port
Default	false
Introduced	16.0.R1

bandwidth *number*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	SAP bandwidth
Range	1 to 3200000000
Units	kilobps
Introduced	16.0.R1

cpu-protection

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

mac-monitoring

Context	**configure service vpls** *service-name* **capture-sap** *sap* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **cpu-protection**
Description	CPM protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R4

description *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dhcp

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Enter the dhcp context
Introduced	16.0.R1

python-policy *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **dhcp**
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

user-db *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **dhcp**
Description	Local user database
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

dhcp6

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Enter the dhcp6 context
Introduced	16.0.R1

python-policy *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **dhcp6**
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

user-db *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **dhcp6**
Description	Local user database
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Distributed CPU protection policy for SAP
Reference	configure **system security dist-cpu-protection policy** *string*
Introduced	16.0.R1

host-lockout-policy *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Host lockout policy
Reference	configure **subscriber-mgmt host-lockout-policy** *string*
Introduced	16.0.R1

ipoe-session

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Enter the ipoe-session context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **ipoe-session**
Description	Administrative state of IPoE session
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **ipoe-session**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ipoe-session-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **capture-sap** *sap* **ipoe-session**
Description	IPoE Session policy to be used for new sessions
Reference	configure **subscriber-mgmt ipoe-session-policy** *string*
Introduced	16.0.R1

user-db *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **capture-sap** *sap* **ipoe-session**
Description	Local user database that is used to (pre-)authenticate new sessions
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

msap-defaults

Context	**configure service vpls** *service-name* **capture-sap** *sap*
Description	Enter the msap-defaults context
Introduced	16.0.R1

group-interface *interface-name*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **msap-defaults**
Description	Group interface
String Length	1 to 32
Introduced	16.0.R1

policy *string*

Context **configure service vpls** *service-name* **capture-sap** *sap* **msap-defaults**

Description MSAP policy

Reference configure **subscriber-mgmt msap-policy** *string*

Introduced 16.0.R1

service-name *service-name*

Context **configure service vpls** *service-name* **capture-sap** *sap* **msap-defaults**

Description Service name

String Length 1 to 64

Introduced 16.0.R1

nasreq-auth-policy *string*

Context **configure service vpls** *service-name* **capture-sap** *sap*

Description Diameter NASREQ application policy to use for authentication

Reference configure **subscriber-mgmt diameter-nasreq-policy** *string*

Introduced 16.0.R4

pppoe

Context **configure service vpls** *service-name* **capture-sap** *sap*

Description Enter the pppoe context

Introduced 16.0.R1

policy *string*

Context **configure service vpls** *service-name* **capture-sap** *sap* **pppoe**

Description PPP policy

Reference configure **subscriber-mgmt ppp-policy** *string*

Introduced 16.0.R1

python-policy *string*

Context **configure service vpls** *service-name* **capture-sap** *sap* **pppoe**

Description Python policy

Reference configure **python python-policy** *string*

Introduced 16.0.R1

user-db *string*

Context **configure service vpls** *service-name* **capture-sap** *sap* **pppoe**

Description Local user database

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R1

radius-auth-policy *string*

Context **configure service vpls** *service-name* **capture-sap** *sap*

Description RADIUS authentication policy

Reference configure **subscriber-mgmt radius-authentication-policy** *string*

Introduced 16.0.R4

router-solicit

Context **configure service vpls** *service-name* **capture-sap** *sap*

Description Enter the router-solicit context

Introduced 16.0.R1

user-db *string*

Context **configure service vpls** *service-name* **capture-sap** *sap* **router-solicit**

Description Local user database

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R1

track-srrp *number*

Context **configure service vpls** *service-name* **capture-sap** *sap*

Description SRRP instance that this capture SAP tracks

Range 1 to 4294967295

Introduced 16.0.R1

trigger-packet

Context **configure service vpls** *service-name* **capture-sap** *sap*

Description Enter the trigger-packet context

Introduced 16.0.R1

arp *boolean*

Context **configure service vpls** *service-name* **capture-sap** *sap* **trigger-packet**

Description ARP packet

Default false

Introduced 16.0.R1

data *boolean*

Context **configure service vpls** *service-name* **capture-sap** *sap* **trigger-packet**

Description Data packet

Default false

Introduced 16.0.R1

dhcp *boolean*

Context **configure service vpls** *service-name* **capture-sap** *sap* **trigger-packet**

Description DHCP packet

Default false

Introduced 16.0.R1

dhcp6 *boolean*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **trigger-packet**
Description	DHCP6 packet
Default	false
Introduced	16.0.R1

pppoe *boolean*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **trigger-packet**
Description	PPPoE packet
Default	false
Introduced	16.0.R1

rtr-solicit *boolean*

Context	**configure service vpls** *service-name* **capture-sap** *sap* **trigger-packet**
Description	Router-solicit packet
Default	false
Introduced	16.0.R1

customer *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name*
Description	Service customer ID
Reference	configure **service customer** *customer-name*
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service vpls** *service-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

endpoint [name] *string*

Context	**configure service vpls** *service-name*
Description	Enter the endpoint context
Max. Elements	10
Introduced	16.0.R1

[name] *string*

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Service endpoint name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

block-on-mesh-failure *boolean*

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Whether operational status of spoke-SDPs in the endpoint will be affected by the operational status of associated mesh SDPs in this service.
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fdb

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Enter the fdb context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service vpls** *service-name* **endpoint** *string* **fdb**
Description	Populate automatically MAC protect list with MAC addresses learned on SDP with this endpoint
Default	false
Introduced	16.0.R1

mac-pinning *boolean*

Context	**configure service vpls** *service-name* **endpoint** *string* **fdb**
Description	Activate MAC address pinning on this endpoint
Default	false
Introduced	16.0.R1

maximum-mac-addresses *number*

Context	**configure service vpls** *service-name* **endpoint** *string* **fdb**
Description	Maximum learned and static entries for this end point
Range	1 to 511999
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service vpls** *service-name* **endpoint** *string* **fdb**
Description	Action when a relearn request for a protected MAC is received on the SDP
Options	sdp-bind-oper-down, alarm-only, discard
Introduced	16.0.R1

ignore-standby-signaling *boolean*

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Ignore standby-bit received from TLDP peers when performing internal tasks
Default	false
Introduced	16.0.R1

revert-time (*number* | *keyword*)

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Time to wait before reverting back to the primary spoke-sdp defined on this service endpoint
Default	immediate
Introduced	16.0.R1

suppress-standby-signaling *boolean*

Context	**configure service vpls** *service-name* **endpoint** *string*
Description	Do not send pseudowire standby bit to TLDP peer when specified spoke SDP is selected as standby
Default	true
Introduced	16.0.R1

eth-cfm

Context	**configure service vpls** *service-name*
Description	Enter the eth-cfm context
Introduced	16.0.R4

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure service vpls** *service-name* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R4

md-admin-name *string*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R4
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R4
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R4

alarm-notification

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R4

fng-alarm-time *number*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R4

fng-reset-time *number*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R4

ccm *boolean*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R4

ccm-ltm-priority *number*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R4

ccm-padding-size *number*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Additional octets inserted into CCM PDU for data TLV padding

Range 3 to 1500

Introduced 16.0.R4

description *string*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R4

eth-test

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R4

bit-error-threshold *number*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R4

test-pattern

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R4

crc-tlv *boolean*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R4

pattern *keyword*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R4

grace

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R4

eth-ed

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R4

max-rx-defect-window *number*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R4

priority *number*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R4

rx-eth-ed *boolean*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R4

tx-eth-ed *boolean*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R4

eth-vsm-grace

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R4

rx-eth-vsm-grace *boolean*

Context **configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R4

tx-eth-vsm-grace *boolean*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R4

low-priority-defect *keyword*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R4

mac-address *mac-unicast-address*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R4

one-way-delay-threshold *number*

Context	**configure service vpls** *service-name* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R4

etree *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name*
Description	Use VPLS as an E-Tree VPLS
Default	false
Introduced	16.0.R1

fdb

Context	**configure service vpls** *service-name*
Description	Enter the fdb context
Introduced	16.0.R1

discard-unknown *boolean*

Context	**configure service vpls** *service-name* **fdb**
Description	Discard packets with unknown destination MAC addresses
Default	false
Introduced	16.0.R1

mac-learning

Context	**configure service vpls** *service-name* **fdb**
Description	Enter the mac-learning context
Introduced	16.0.R1

aging *boolean*

Context	**configure service vpls** *service-name* **fdb mac-learning**
Description	Enable aging of MAC addresses
Default	true
Introduced	16.0.R1

learning *boolean*

Context	**configure service vpls** *service-name* **fdb mac-learning**
Description	Enable learning of new MAC addresses
Default	true
Introduced	16.0.R1

local-age-time *number*

Context	**configure service vpls** *service-name* **fdb mac-learning**
Description	Aging time for locally learned MAC addresses
Range	60 to 86400
Default	300
Introduced	16.0.R1

remote-age-time *number*

Context	**configure service vpls** *service-name* **fdb mac-learning**
Description	Aging time for locally learned MAC addresses
Range	60 to 86400
Default	900
Introduced	16.0.R1

mac-move

Context	**configure service vpls** *service-name* **fdb**
Description	Enter the mac-move context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **fdb mac-move**
Description	Administrative state of MAC move
Default	disable
Options	enable, disable
Introduced	16.0.R1

mac-subnet-length *number*

Context	**configure service vpls** *service-name* **fdb**
Description	MAC sub-net length.
Range	24 to 48
Default	48
Introduced	16.0.R1

selective-learning *boolean*

Context	**configure service vpls** *service-name* **fdb**
Description	Selective learning status.
Default	false
Introduced	16.0.R1

static-mac

Context	**configure service vpls** *service-name* **fdb**
Description	Enter the static-mac context
Introduced	16.0.R1

mac [mac-address] *mac-unicast-address-no-zero*

Context	**configure service vpls** *service-name* **fdb static-mac**
Description	Enter the mac context
Introduced	16.0.R1

[mac-address] *mac-unicast-address-no-zero*

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	Static MAC address to SAP/SDP-binding or black-hole
Introduced	16.0.R1
Notes	This element is part of a list key

blackhole



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	Create a static FDB entry for the MAC address to black-hole traffic
Introduced	16.0.R1
Notes	This element is part of a choice

endpoint *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	Endpoint associated with this MAC
Reference	configure **service vpls** *service-name* **endpoint** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

mesh-sdp *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	Mesh SDP bind associated with this MAC
Reference	configure **service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Introduced	16.0.R1
Notes	This element is part of a choice

monitor *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	Entity to be monitored to decide whether this entry can be installed in the FDB
Default	none
Options	none, forward-status
Introduced	16.0.R1

sap *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	SAP associated with this MAC
Reference	configure **service vpls** *service-name* **sap** *sap*
Introduced	16.0.R1
Notes	This element is part of a choice

spoke-sdp *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **fdb static-mac mac** *mac-unicast-address-no-zero*
Description	Spoke SDP bind associated with this MAC
Reference	configure **service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Introduced	16.0.R1
Notes	This element is part of a choice

table

Context	**configure service vpls** *service-name* **fdb**
Description	Enter the table context
Introduced	16.0.R1

high-wmark *number*

Context	**configure service vpls** *service-name* **fdb table**
Description	High watermark for the FDB table
Range	0 to 100
Default	95
Introduced	16.0.R1

low-wmark *number*

Context **configure service vpls** *service-name* **fdb table**
Description Low watermark for the FDB table
Range 0 to 100
Default 90
Introduced 16.0.R1

size *number*

Context **configure service vpls** *service-name* **fdb table**
Description Maximum MAC entries in the FDB
Range 1 to 511999
Default 250
Introduced 16.0.R1

gsmp

Context **configure service vpls** *service-name*
Description Enter the gsmp context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **gsmp**
Description Administrative state of GSMP
Default disable
Options enable, disable
Introduced 16.0.R1

group [name] *string*

Context **configure service vpls** *service-name* **gsmp**
Description Enter the group context
Max. Elements 1024
Introduced 16.0.R1

[name] *string*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	GSMP neighbor group name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Administrative state of the GSMP group
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Enter the ancp context
Introduced	16.0.R1

dynamic-topology-discovery *boolean*

Context	**configure service vpls** *service-name* **gsmp group** *string* **ancp**
Description	Enable the ANCP dynamic topology discovery capability
Default	true
Introduced	16.0.R1

oam *boolean*

Context	**configure service vpls** *service-name* **gsmp group** *string* **ancp**
Description	Enable GSMP ANCP OAM capability at startup of GSMP connection
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

hold-multiplier *number*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Hold-multiplier for the GSMP connections in this group
Range	1 to 100
Default	3
Introduced	16.0.R1

idle-filter *boolean*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Filter ANCP messages from IDLE DSL lines
Default	false
Introduced	16.0.R1

keepalive *number*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Keepalive value for the GSMP connections in this group
Range	1 to 25
Default	10
Units	seconds
Introduced	16.0.R1

neighbor [remote-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Enter the neighbor context
Introduced	16.0.R1

[remote-address] *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	GSMP neighbor remote IP address
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Administrative state of the GSMP neighbor
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

local-address *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Restrict connections to this local address only within the service running ANCP
Introduced	16.0.R1

priority-marking

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Enter the priority-marking context
Introduced	16.0.R1

dscp *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address* **priority-marking**
Description	DSCP that is used while remarking the in profile packets
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a choice

prec *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address* **priority-marking**
Description	Precedence priority marking
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a choice

persistency *boolean*

Context	**configure service vpls** *service-name* **gsmp group** *string*
Description	Store DSL line information when the GSMP connection terminates
Default	false
Introduced	16.0.R1

igmp-host-tracking

Context	**configure service vpls** *service-name*
Description	Enter the igmp-host-tracking context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **igmp-host-tracking**
Description	Administrative state of IGMP host tracking
Default	disable
Options	enable, disable
Introduced	16.0.R1

expiry-time *number*

Context	**configure service vpls** *service-name* **igmp-host-tracking**
Description	Time during which the system continues to track inactive hosts
Range	1 to 65535
Default	260
Units	seconds
Introduced	16.0.R1

igmp-snooping

Context	**configure service vpls** *service-name*
Description	Enter the igmp-snooping context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **igmp-snooping**
Description	Administrative state of IGMP snooping
Default	disable
Options	enable, disable
Introduced	16.0.R1

mvr

Context **configure service vpls** *service-name* **igmp-snooping**

Description Enter the mvr context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **igmp-snooping mvr**

Description Administrative state of MVR

Default disable

Options enable, disable

Introduced 16.0.R1

description *string*

Context **configure service vpls** *service-name* **igmp-snooping mvr**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

group-policy *string*

Context **configure service vpls** *service-name* **igmp-snooping mvr**

Description Policy that applies MVR

String Length 1 to 32

Introduced 16.0.R1

query-interval *number*

Context **configure service vpls** *service-name* **igmp-snooping**

Description Time between two consecutive host-query messages

Range 1 to 65535

Default 125

Units seconds

Introduced 16.0.R1

query-source-address (*keyword* | *string*)

Context **configure service vpls** *service-name* **igmp-snooping**
Description Source address for IGMP queries
Default system
Options system
Introduced 16.0.R1

report-source-address *ipv4-address*

Context **configure service vpls** *service-name* **igmp-snooping**
Description Source address used when generating IGMP reports.
Introduced 16.0.R1

robust-count *number*

Context **configure service vpls** *service-name* **igmp-snooping**
Description Robustness variable
Range 1 to 255
Default 2
Introduced 16.0.R1

interface [interface-name] *interface-name*

Context **configure service vpls** *service-name*
Description Enter the interface context
Introduced 16.0.R1

[interface-name] *interface-name*

Context **configure service vpls** *service-name* **interface** *interface-name*
Description Router interface name
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **interface** *interface-name*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

hold-time

Context	**configure service vpls** *service-name* **interface** *interface-name*
Description	Enter the hold-time context
Introduced	16.0.R1

ipv4

Context	**configure service vpls** *service-name* **interface** *interface-name* **hold-time**
Description	Enter the ipv4 context
Introduced	16.0.R1

down

Context	**configure service vpls** *service-name* **interface** *interface-name* **hold-time ipv4**
Description	Enter the down context
Introduced	16.0.R1

init-only *boolean*

Context	**configure service vpls** *service-name* **interface** *interface-name* **hold-time ipv4 down**
Description	Apply down delay only when interface is configured or after reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure service vpls** *service-name* **interface** *interface-name* **hold-time ipv4 down**
Description	Down hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure service vpls** *service-name* **interface** *interface-name* **hold-time ipv4**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure service vpls** *service-name* **interface** *interface-name* **hold-time ipv4 up**
Description	Up hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

ipv4

Context	**configure service vpls** *service-name* **interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

neighbor-discovery

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the neighbor-discovery context
Introduced	16.0.R1

static-neighbor [ipv4-address] *ipv4-address*

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor context
Introduced	16.0.R1

[ipv4-address] *ipv4-address*

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	IPv4 address corresponding to the media-dependent physical address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-address *mac-address*

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

timeout *number*

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP timeout value to determine how long an ARP entry remains in the ARP cache
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

primary

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the primary context
Introduced	16.0.R1

address *ipv4-address*

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address for a VPLS interface
Introduced	16.0.R1
Notes	This element is mandatory

prefix-length *number*

Context	**configure service vpls** *service-name* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

mac *mac-unicast-address*

Context	**configure service vpls** *service-name* **interface** *interface-name*
Description	MAC address for the interface
Introduced	16.0.R1

load-balancing

Context	**configure service vpls** *service-name*
Description	Enter the load-balancing context
Introduced	16.0.R1

per-service-hashing *boolean*

Context	**configure service vpls** *service-name* **load-balancing**
Description	Enable/disable per service hashing.
Default	false
Introduced	16.0.R1

spi-load-balancing *boolean*

Context	**configure service vpls** *service-name* **load-balancing**
Description	Allow use of SPI (Security Parameter Index) in hashing for ESP/AH encrypted IPv4/IPv6 traffic
Default	false
Introduced	16.0.R1

teid-load-balancing *boolean*

Context	**configure service vpls** *service-name* **load-balancing**
Description	Include TEID in hashing algorithm for GTP-U/C encapsulated traffic
Default	false
Introduced	16.0.R1

mac-flush

Context	**configure service vpls** *service-name*
Description	Enter the mac-flush context
Introduced	16.0.R1

tldp

Context	**configure service vpls** *service-name* **mac-flush**
Description	Enter the tldp context
Introduced	16.0.R1

propagate *boolean*

Context	**configure service vpls** *service-name* **mac-flush tldp**
Description	Propagate MAC flush frames from LDP peer to all mesh-SDP and Spoke-SDPs.
Default	false
Introduced	16.0.R1

send-on-failure *boolean*

Context	**configure service vpls** *service-name* **mac-flush tldp**
Description	Send MAC withdraw message on SAP/Spoke-SDP failure
Default	false
Introduced	16.0.R1

mcast-ipv6-snooping-scope *keyword*

Context	**configure service vpls** *service-name*
Description	IPv6 multicast snooping scope
Default	mac-based
Options	sg-based, mac-based
Introduced	16.0.R1

mcr-default-gtw

Context	**configure service vpls** *service-name*
Description	Enter the mcr-default-gtw context
Introduced	16.0.R1

ip *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **mcr-default-gtw**
Description	Multi-chassis ring default gateway IP address
Introduced	16.0.R1

mac *mac-address*

Context	**configure service vpls** *service-name* **mcr-default-gtw**
Description	Multi-chassis ring default gateway MAC address
Default	00:00:00:00:00:00
Introduced	16.0.R1

mesh-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service vpls** *service-name*
Description	Enter the mesh-sdp context
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Policy to collect accounting statistics
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Enter the bfd-liveness context

Introduced 16.0.R1

encap *keyword*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **bfd-liveness**

Description BFD encapsulation used on this SDP binding

Default ipv4

Options ipv4

Introduced 16.0.R1

bfd-template *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description BFD template associated with SDP binding

Reference configure **bfd bfd-template** *string*

Introduced 16.0.R1

collect-stats *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Allow agent to collect accounting statistics

Default false

Introduced 16.0.R1

control-word *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Use the control word as preferred

Default false

Introduced 16.0.R1

cpu-protection

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **cpu-protection**

Description CPM protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R1

description *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

dhcp

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Enter the dhcp context

Introduced 16.0.R1

description *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **dhcp**

Description Text description

String Length 1 to 80

Introduced 16.0.R4

snoop *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **dhcp**

Description Allow DHCP snooping of DHCP messages on the SAP or SDP

Default false

Introduced 16.0.R4

egress

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress filter**

Description MAC filter ID

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

mfib-allowed-mda-destinations

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress**

Description Enter the mfib-allowed-mda-destinations context

Introduced 16.0.R1

mda [mda-id] *slot-mda*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress mfib-allowed-mda-destinations**

Description Enter the mda context

Introduced 16.0.R1

[mda-id] *slot-mda*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress mfib-allowed-mda-destinations mda** *slot-mda*

Description MFIB allowed MDA destination

Introduced 16.0.R1

Notes This element is part of a list key

qos

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress qos**

Description Enter the network context

Introduced 16.0.R1

policy-name *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress qos network**

Description Egress network policy name applied to this SDP binding

Reference configure **qos network** *network-policy-name*

Introduced 16.0.R1

port-redirect-group

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress qos network**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress qos network port-redirect-group**
Description	Policy for port queue group for this SDP binding
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1

instance *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress qos network port-redirect-group**
Description	Instance of the port egress Queue Group for this SDP binding.
Range	1 to 65535
Introduced	16.0.R1

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **egress**
Description	Static MPLS VC label that is used to send packets to the far end device through this SDP
Range	16 to 1048575
Introduced	16.0.R1

entropy-label

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Whether the use of entropy-label is enabled or not.
Introduced	16.0.R1
Notes	This element is part of a choice

eth-cfm

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Enter the eth-cfm context
Introduced	16.0.R1

collect-lmm-fc-stats

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the ais context
Introduced	16.0.R1

client-meg-level *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Client MEG level for AIS message generation
Range	1 to 7
Max. Elements	7
Introduced	16.0.R1

interface-support *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Allow generation of AIS PDUs based on the associated endpoint state
Default	false
Introduced	16.0.R1

interval *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Transmission interval for AIS messages
Range	1 | 60
Default	1
Units	seconds
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**

Description Receive period multiplier to time out CSF

Range 0.0 | 2.0 to 30.0

Default 3.5

Introduced 16.0.R1

description *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

direction *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Direction the MEP faces

Options down, up

Introduced 16.0.R1

eth-test

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

lbm-svc-act-responder *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Process service activation streams encapsulated in ETH-CFM request Loopback Message
Default	false
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

mac-address *mac-unicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

primary-vlan *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MEP provisioned using MA primary VLAN ID
Default	false
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

vmep-filter *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **eth-cfm**
Description	Suppress eth-cfm PDUs based on level lower than or equal to configured Virtual MEP
Default	false
Introduced	16.0.R1

etree-leaf *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Enable etree leaf access-circuit status
Default	false
Introduced	16.0.R1

etree-root-leaf-tag *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Status for E-tree root leaf tag
Default	false
Introduced	16.0.R1

fdb

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Enter the fdb context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **fdb**
Description	Enable/disable of automatic marking of MACs as protected
Default	false
Introduced	16.0.R4

mac-pinning *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **fdb**
Description	MAC address pinning in active status
Default	false
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **fdb**
Description	Action to take whenever a relearn request for a protected MAC is received
Options	sdp-bind-oper-down, alarm-only, discard
Introduced	16.0.R4

force-vc-forwarding *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	VC forwarding status
Options	vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced	16.0.R1

hash-label

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Enter the **hash-label** context
Introduced	16.0.R1

signal-capability

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **hash-label**
Description	To signal the hash label capability to the remote PE.
Introduced	16.0.R1
Notes	This element is part of a choice

igmp-snooping

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Enter the igmp-snooping context

Introduced 16.0.R1

fast-leave *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Allow IGMP fast leave processing

Default false

Introduced 16.0.R1

import-policy *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-group-sources *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Maximum group source combinations

Range 1 to 32000

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Maximum groups allowed

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Maximum sources that are allowed per group

Range 1 to 1000

Introduced 16.0.R1

mcac

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

mrouter-port *boolean*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Port as a multicast router port

Default false

Introduced 16.0.R1

query-interval *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Time between two consecutive host-query messages

Range 2 to 1024

Default 125

Units seconds

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description Time between group-specific query messages

Range 1 to 50

Default 10

Units deciseconds

Introduced 16.0.R1

query-response-interval *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**
Description	Number of retries to cope with message loss.
Range	2 to 7
Default	2
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**
Description	Enable IP router alert check option
Default	true
Introduced	16.0.R1

send-queries *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**
Description	Generate IGMP general queries
Default	false
Introduced	16.0.R1

static

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv4-multicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv4-multicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

version *keyword*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **igmp-snooping**

Description IGMP protocol version

Default 3

Options 1, 2, 3

Introduced 16.0.R1

ingress

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress filter**

Description MAC filter ID

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress qos network**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**

Description Forwarding-plane queue group policy for this SDP binding

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**
Description	Instance of the forwarding-plane ingress Queue Group for this SDP binding
Range	1 to 65535
Introduced	16.0.R1

policy-name *string*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress qos network**
Description	Ingress network policy name applied to this SDP binding
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	1 to 1048575
Introduced	16.0.R1

mld-snooping

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Enter the mld-snooping context
Introduced	16.0.R1

fast-leave *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Allow IGMP fast leave processing
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Maximum groups allowed
Range	1 to 16000
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

query-interval *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Time between group-specific query messages
Range	1 to 50
Default	10
Units	deciseconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Number of retries to cope with message loss.
Range	2 to 7
Default	2
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Enable IP router alert check option
Default	true
Introduced	16.0.R1

send-queries *boolean*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Generate IGMP general queries
Default	false
Introduced	16.0.R1

static

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv6-multicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv6-multicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

version *keyword*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id* **mld-snooping**
Description	MLD protocol version.
Default	2
Options	1, 2
Introduced	16.0.R1

vc-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	Type of virtual circuit (VC) associated with the SDP binding; VPLS not supported
Default	ether
Options	ether, vlan
Introduced	16.0.R1

vlan-vc-tag *number*

Context	**configure service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Description	SDP bind VC tag
Range	0 to 4094
Introduced	16.0.R1

mfib

Context	**configure service vpls** *service-name*
Description	Enter the mfib context
Introduced	16.0.R1

table

Context	**configure service vpls** *service-name* **mfib**
Description	Enter the table context
Introduced	16.0.R1

high-wmark *number*

Context	**configure service vpls** *service-name* **mfib table**
Description	High watermark for the MFIB table
Range	0 to 100
Default	95
Introduced	16.0.R1

low-wmark *number*

Context	**configure service vpls** *service-name* **mfib table**
Description	Low watermark for the MFIB table
Range	0 to 100
Default	90
Introduced	16.0.R1

size *number*

Context	**configure service vpls** *service-name* **mfib table**
Description	Maximum SG entries in the MFIB
Range	1 to 40959
Introduced	16.0.R1

mld-snooping

Context	**configure service vpls** *service-name*
Description	Enter the mld-snooping context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **mld-snooping**
Description	Administrative state of IGMP snooping
Default	disable
Options	enable, disable
Introduced	16.0.R1

mvr

Context	**configure service vpls** *service-name* **mld-snooping**
Description	Enter the mvr context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **mld-snooping mvr**
Description	Administrative state of MVR
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **mld-snooping mvr**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

group-policy *string*

Context	**configure service vpls** *service-name* **mld-snooping mvr**
Description	Policy that applies MVR
String Length	1 to 32
Introduced	16.0.R1

query-interval *number*

Context	**configure service vpls** *service-name* **mld-snooping**
Description	Time between two consecutive host-query messages
Range	1 to 65535
Default	125
Units	seconds
Introduced	16.0.R1

query-source-address (*keyword* | *string*)

Context	**configure service vpls** *service-name* **mld-snooping**
Description	Source address used when generating MLD queries.
Default	system
Options	system
Introduced	16.0.R1

report-source-address *ipv6-address*

Context	**configure service vpls** *service-name* **mld-snooping**
Description	Source address used when generating MLD reports.
Introduced	16.0.R1

robust-count *number*

Context	**configure service vpls** *service-name* **mld-snooping**
Description	Robustness variable
Range	1 to 255
Default	2
Introduced	16.0.R1

multicast-info-policy *string*

Context	**configure service vpls** *service-name*
Description	Multicast information policy
Reference	configure **multicast-management multicast-info-policy** *string*
Introduced	16.0.R1

pbb

Context	**configure service vpls** *service-name*
Description	Enter the pbb context
Introduced	16.0.R1

backbone-vpls [backbone-vpls-service-name] *string*

Context	**configure service vpls** *service-name* **pbb**
Description	Enter the backbone-vpls context
Max. Elements	1
Introduced	16.0.R1

[backbone-vpls-service-name] *string*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string*
Description	Backbone VPLS service
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is part of a list key

igmp-snooping

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string*

Description Enter the igmp-snooping context

Introduced 16.0.R1

mrouter-destination [mac-reference] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **igmp-snooping**

Description Enter the mrouter-destination context

Introduced 16.0.R1

[mac-reference] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **igmp-snooping mrouter-destination** *string*

Description Mac name reference

Reference configure **service pbb mac** *string*

Introduced 16.0.R1

Notes This element is part of a list key

isid *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string*

Description Backbone VPLS ISID

Range 0 to 16777215

Introduced 16.0.R1

Notes This element is mandatory

mesh-sdp [sdp-bind-id] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string*

Description Enter the mesh-sdp context

Introduced 16.0.R1

[sdp-bind-id] *string*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **mesh-sdp** *string*
Description	Backbone VPLS SAP
Reference	configure **service vpls** *service-name* **mesh-sdp** *sdp-bind-id*
Introduced	16.0.R1
Notes	This element is part of a list key

igmp-snooping

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **mesh-sdp** *string*
Description	Enter the igmp-snooping context
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **mesh-sdp** *string* **igmp-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

mld-snooping

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **mesh-sdp** *string*
Description	Enter the mld-snooping context
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **mesh-sdp** *string* **mld-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

mld-snooping

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string*

Description Enter the mld-snooping context

Introduced 16.0.R1

mrouter-destination [mac-reference] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **mld-snooping**

Description Enter the mrouter-destination context

Introduced 16.0.R1

[mac-reference] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **mld-snooping mrouter-destination** *string*

Description Mac name reference

Reference configure **service pbb mac** *string*

Introduced 16.0.R1

Notes This element is part of a list key

sap [sap-id] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string*

Description Enter the sap context

Introduced 16.0.R1

[sap-id] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **sap** *string*

Description Backbone VPLS SAP

Reference configure **service vpls** *service-name* **sap** *sap*

Introduced 16.0.R1

Notes This element is part of a list key

igmp-snooping

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **sap** *string*

Description Enter the igmp-snooping context

Introduced 16.0.R1

mrouter-port *boolean*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **sap** *string* **igmp-snooping**

Description Port as a multicast router port

Default false

Introduced 16.0.R1

mld-snooping

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **sap** *string*

Description Enter the mld-snooping context

Introduced 16.0.R1

mrouter-port *boolean*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string* **sap** *string* **mld-snooping**

Description Port as a multicast router port

Default false

Introduced 16.0.R1

spoke-sdp [sdp-bind-id] *string*

Context **configure service vpls** *service-name* **pbb backbone-vpls** *string*

Description Enter the spoke-sdp context

Introduced 16.0.R1

[sdp-bind-id] *string*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **spoke-sdp** *string*
Description	Backbone VPLS SAP
Reference	configure **service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Introduced	16.0.R1
Notes	This element is part of a list key

igmp-snooping

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **spoke-sdp** *string*
Description	Enter the igmp-snooping context
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **spoke-sdp** *string* **igmp-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

mld-snooping

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **spoke-sdp** *string*
Description	Enter the mld-snooping context
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **pbb backbone-vpls** *string* **spoke-sdp** *string* **mld-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

force-qtag-forwarding *boolean*

Context **configure service vpls** *service-name* **pbb**

Description Enable 802.1q tag forwarding

Default false

Introduced 16.0.R1

i-vpls-mac-flush

Context **configure service vpls** *service-name* **pbb**

Description Enter the i-vpls-mac-flush context

Introduced 16.0.R1

bgp-evpn

Context **configure service vpls** *service-name* **pbb i-vpls-mac-flush**

Description Enter the bgp-evpn context

Introduced 16.0.R1

send-to-bvpls *boolean*

Context **configure service vpls** *service-name* **pbb i-vpls-mac-flush bgp-evpn**

Description Send b-VPLS EVPN flush

Default false

Introduced 16.0.R1

tldp

Context **configure service vpls** *service-name* **pbb i-vpls-mac-flush**

Description Enter the tldp context

Introduced 16.0.R1

propagate-from-bvpls *boolean*

Context **configure service vpls** *service-name* **pbb i-vpls-mac-flush tldp**

Description Propagate mac-flush from b-vpls into local i-vpls

Default false

Introduced 16.0.R1

send-on-bvpls-failure *boolean*

Context	**configure service vpls** *service-name* **pbb i-vpls-mac-flush tldp**
Description	Send flush-all-from-me on b-vpls failure
Default	false
Introduced	16.0.R1

send-to-bvpls

Context	**configure service vpls** *service-name* **pbb i-vpls-mac-flush tldp**
Description	Enter the send-to-bvpls context
Introduced	16.0.R1

all-but-mine *boolean*

Context	**configure service vpls** *service-name* **pbb i-vpls-mac-flush tldp send-to-bvpls**
Description	Generate LDP MAC withdraw message to b-VPLS
Default	false
Introduced	16.0.R1

all-from-me *boolean*

Context	**configure service vpls** *service-name* **pbb i-vpls-mac-flush tldp send-to-bvpls**
Description	Generate LDP MAC withdraw all from me message to b-VPLS
Default	false
Introduced	16.0.R1

mac-notification

Context	**configure service vpls** *service-name* **pbb**
Description	Enter the mac-notification context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **pbb mac-notification**
Description	Administrative state of MAC notification
Default	disable
Options	enable, disable
Introduced	16.0.R1

count *number*

Context	**configure service vpls** *service-name* **pbb mac-notification**
Description	MAC notification messages count
Range	1 to 10
Introduced	16.0.R1

interval *number*

Context	**configure service vpls** *service-name* **pbb mac-notification**
Description	Interval for MAC notification messages
Range	1 to 100
Units	deciseconds
Introduced	16.0.R1

renotify (*number* | *keyword*)

Context	**configure service vpls** *service-name* **pbb mac-notification**
Description	Re-notify interval for MAC-notification messages
Range	240 to 840
Default	none
Units	seconds
Options	none
Introduced	16.0.R1

source-bmac

Context	**configure service vpls** *service-name* **pbb**
Description	Enter the source-bmac context
Introduced	16.0.R1

address *mac-unicast-address-no-zero*

Context **configure service vpls** *service-name* **pbb source-bmac**

Description Backbone source MAC address used for PBB

Introduced 16.0.R1

use-es-bmac-lsb *boolean*

Context **configure service vpls** *service-name* **pbb source-bmac**

Description Use ethernet segment backbone MAC LSB

Default false

Introduced 16.0.R1

use-mclag-bmac-lsb *boolean*

Context **configure service vpls** *service-name* **pbb source-bmac**

Description Use MC LAG backbone MAC LSB

Default false

Introduced 16.0.R1

pbb-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vpls** *service-name*

Description PBB VPLS type

Options b-vpls, i-vpls

Introduced 16.0.R1

pim-snooping

Context **configure service vpls** *service-name*

Description Enter the pim-snooping context

Introduced 16.0.R1

group-policy *string*

Context	**configure service vpls** *service-name* **pim-snooping**
Description	Group policy name
String Length	1 to 255
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

hold-time *number*

Context	**configure service vpls** *service-name* **pim-snooping**
Description	Duration that allows the PIM-snooping switch to snoop all the PIM states in the VPLS
Range	0 to 300
Default	90
Units	seconds
Introduced	16.0.R1

ipv4

Context	**configure service vpls** *service-name* **pim-snooping**
Description	Enter the ipv4 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **pim-snooping ipv4**
Description	Administrative state of snooping
Default	enable
Options	enable, disable
Introduced	16.0.R1

ipv6

Context	**configure service vpls** *service-name* **pim-snooping**
Description	Enter the ipv6 context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **pim-snooping ipv6**
Description Administrative state of snooping
Default disable
Options enable, disable
Introduced 16.0.R1

proxy-arp

Context **configure service vpls** *service-name*
Description Enter the proxy-arp context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **proxy-arp**
Description Administrative state of the proxy
Default disable
Options enable, disable
Introduced 16.0.R1

age-time (*number* | *keyword*)

Context **configure service vpls** *service-name* **proxy-arp**
Description Aging timer for proxy entries, where entries are flushed upon timer expiry
Range 60 to 86400
Default never
Units seconds
Options never
Introduced 16.0.R1

duplicate-detect

Context **configure service vpls** *service-name* **proxy-arp**
Description Enter the duplicate-detect context
Introduced 16.0.R1

anti-spoof-mac *mac-unicast-address-no-zero*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-arp duplicate-detect**
Description	MAC address to replace the proxy-ARP/ND offending entry's MAC
Introduced	16.0.R1

hold-down-time (*number* | *keyword*)

Context	**configure service vpls** *service-name* **proxy-arp duplicate-detect**
Description	Hold down time for a duplicate entry
Range	1 to 60
Default	9
Units	minutes
Options	max
Introduced	16.0.R1

num-moves *number*

Context	**configure service vpls** *service-name* **proxy-arp duplicate-detect**
Description	Number of moves required to declare a duplicate entry
Range	3 to 10
Default	5
Introduced	16.0.R1

static-blackhole *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-arp duplicate-detect**
Description	Consider anti-spoof MAC as black-hole static MAC in FDB
Default	false
Introduced	16.0.R1

window *number*

Context	**configure service vpls** *service-name* **proxy-arp duplicate-detect**
Description	Time to monitor the MAC address in the anti-spoofing mechanism
Range	1 to 15
Default	3
Units	minutes
Introduced	16.0.R1

dynamic-arp

Context	**configure service vpls** *service-name* **proxy-arp**
Description	Enter the dynamic-arp context
Introduced	16.0.R1

ip-address [ipv4-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **proxy-arp dynamic-arp**
Description	Enter the ip-address context
Introduced	16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **proxy-arp dynamic-arp ip-address** *ipv4-unicast-address*
Description	Proxy ARP IP address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-list *string*

Context	**configure service vpls** *service-name* **proxy-arp dynamic-arp ip-address** *ipv4-unicast-address*
Description	MAC list for the dynamic entry
Reference	configure **service proxy-arp-nd mac-list list** *string*
Introduced	16.0.R1

resolve-retry-time *number*

Context	**configure service vpls** *service-name* **proxy-arp dynamic-arp ip-address** *ipv4-unicast-address*
Description	Frequency at which the resolve messages are sent
Range	1 to 60
Default	5
Units	minutes
Introduced	16.0.R1

dynamic-populate *boolean*

Context	**configure service vpls** *service-name* **proxy-arp**
Description	Populate proxy ARP entries from snooped GARP/ARP/ND messages on SAPs/ SDP-bindings
Default	false
Introduced	16.0.R1

evpn

Context	**configure service vpls** *service-name* **proxy-arp**
Description	Enter the evpn context
Introduced	16.0.R1

flood

Context	**configure service vpls** *service-name* **proxy-arp evpn**
Description	Enter the flood context
Introduced	16.0.R1

gratuitous-arp *boolean*

Context	**configure service vpls** *service-name* **proxy-arp evpn flood**
Description	Flood GARP-requests/GARP-replies to the EVPN
Default	true
Introduced	16.0.R1

unknown-arp-req *boolean*

Context	**configure service vpls** *service-name* **proxy-arp evpn flood**
Description	Flood ARP-requests (with source squelching) if there is no active proxy-ARP entry for requested IP
Default	true
Introduced	16.0.R1

route-tag *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-arp evpn**
Description	Route tag used on export policies to match MAC/IP routes generated by proxy-ARP or proxy-ND module
Range	0 | 1 to 255
Default	0
Introduced	16.0.R1

send-refresh (*number* | *keyword*)

Context	**configure service vpls** *service-name* **proxy-arp**
Description	Time at which to send a refresh message
Range	120 to 86400
Default	never
Options	never
Introduced	16.0.R1

static-arp

Context	**configure service vpls** *service-name* **proxy-arp**
Description	Enter the static-arp context
Introduced	16.0.R1

ip-address [ipv4-address] *ipv4-unicast-address*

Context **configure service vpls** *service-name* **proxy-arp static-arp**

Description Enter the ip-address context

Introduced 16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context **configure service vpls** *service-name* **proxy-arp static-arp ip-address** *ipv4-unicast-address*

Description Proxy ARP IP address

Introduced 16.0.R1

Notes This element is part of a list key

mac *mac-unicast-address-no-zero*

Context **configure service vpls** *service-name* **proxy-arp static-arp ip-address** *ipv4-unicast-address*

Description Proxy ARP MAC address for static entry

Introduced 16.0.R1

Notes This element is mandatory

table-size *number*

Context **configure service vpls** *service-name* **proxy-arp**

Description Maximum number of learned and static entries allowed in the proxy table of this service

Range 1 to 16383

Default 250

Introduced 16.0.R1

proxy-nd

Context **configure service vpls** *service-name*

Description Enter the proxy-nd context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Administrative state of the proxy
Default	disable
Options	enable, disable
Introduced	16.0.R1

age-time (*number* | *keyword*)

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Aging timer for proxy entries, where entries are flushed upon timer expiry
Range	60 to 86400
Default	never
Units	seconds
Options	never
Introduced	16.0.R1

duplicate-detect

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Enter the duplicate-detect context
Introduced	16.0.R1

anti-spoof-mac *mac-unicast-address-no-zero*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-nd duplicate-detect**
Description	MAC address to replace the proxy-ARP/ND offending entry's MAC
Introduced	16.0.R1

hold-down-time (*number* | *keyword*)

Context	**configure service vpls** *service-name* **proxy-nd duplicate-detect**
Description	Hold down time for a duplicate entry
Range	1 to 60
Default	9
Units	minutes
Options	max
Introduced	16.0.R1

num-moves *number*

Context	**configure service vpls** *service-name* **proxy-nd duplicate-detect**
Description	Number of moves required to declare a duplicate entry
Range	3 to 10
Default	5
Introduced	16.0.R1

static-blackhole *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-nd duplicate-detect**
Description	Consider anti-spoof MAC as black-hole static MAC in FDB
Default	false
Introduced	16.0.R1

window *number*

Context	**configure service vpls** *service-name* **proxy-nd duplicate-detect**
Description	Time to monitor the MAC address in the anti-spoofing mechanism
Range	1 to 15
Default	3
Units	minutes
Introduced	16.0.R1

dynamic-neighbor

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Enter the dynamic-neighbor context
Introduced	16.0.R1

ip-address [ipv6-address] *ipv6-unicast-address*

Context	**configure service vpls** *service-name* **proxy-nd dynamic-neighbor**
Description	Enter the ip-address context
Introduced	16.0.R1

[ipv6-address] *ipv6-unicast-address*

Context	**configure service vpls** *service-name* **proxy-nd dynamic-neighbor ip-address** *ipv6-unicast-address*
Description	Proxy ND IP address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-list *string*

Context	**configure service vpls** *service-name* **proxy-nd dynamic-neighbor ip-address** *ipv6-unicast-address*
Description	MAC list for the dynamic entry
Reference	configure **service proxy-arp-nd mac-list list** *string*
Introduced	16.0.R1

resolve-retry-time *number*

Context	**configure service vpls** *service-name* **proxy-nd dynamic-neighbor ip-address** *ipv6-unicast-address*
Description	Frequency at which the resolve messages are sent
Range	1 to 60
Default	5
Units	minutes
Introduced	16.0.R1

dynamic-populate *boolean*

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Populate proxy ARP entries from snooped GARP/ARP/ND messages on SAPs/ SDP-bindings
Default	false
Introduced	16.0.R1

evpn

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Enter the evpn context
Introduced	16.0.R1

advertise-neighbor-type *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-nd evpn**
Description	Advertisement type of static or dynamic entries in the EVPN
Default	router
Options	router, host
Introduced	16.0.R1

flood

Context	**configure service vpls** *service-name* **proxy-nd evpn**
Description	Enter the flood context
Introduced	16.0.R1

unknown-neighbor-advertise-host *boolean*

Context	**configure service vpls** *service-name* **proxy-nd evpn flood**
Description	Flood host unsolicited Neighbor Advertisement (NA) replies to EVPN
Default	true
Introduced	16.0.R1

unknown-neighbor-advertise-router *boolean*

Context	**configure service vpls** *service-name* **proxy-nd evpn flood**
Description	Flood router unsolicited Neighbor Advertisement (NA) replies to EVPN
Default	true
Introduced	16.0.R1

unknown-neighbor-solicitation *boolean*

Context	**configure service vpls** *service-name* **proxy-nd evpn flood**
Description	Flood unsolicited Neighbor Solicitation messages (with source squelching) into EVPN network
Default	true
Introduced	16.0.R1

route-tag *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **proxy-nd evpn**
Description	Route tag used on export policies to match MAC/IP routes generated by proxy-ARP or proxy-ND module
Range	0 | 1 to 255
Default	0
Introduced	16.0.R1

send-refresh (*number* | *keyword*)

Context	**configure service vpls** *service-name* **proxy-nd**
Description	Time at which to send a refresh message
Range	120 to 86400
Default	never
Options	never
Introduced	16.0.R1

static-neighbor

Context **configure service vpls** *service-name* **proxy-nd**

Description Enter the static-neighbor context

Introduced 16.0.R1

ip-address [ipv6-address] *ipv6-unicast-address*

Context **configure service vpls** *service-name* **proxy-nd static-neighbor**

Description Enter the ip-address context

Introduced 16.0.R1

[ipv6-address] *ipv6-unicast-address*

Context **configure service vpls** *service-name* **proxy-nd static-neighbor ip-address** *ipv6-unicast-address*

Description Proxy ND IP address

Introduced 16.0.R1

Notes This element is part of a list key

mac *mac-unicast-address-no-zero*

Context **configure service vpls** *service-name* **proxy-nd static-neighbor ip-address** *ipv6-unicast-address*

Description Proxy ARP MAC address for static entry

Introduced 16.0.R1

Notes This element is mandatory

type *keyword*

Context **configure service vpls** *service-name* **proxy-nd static-neighbor ip-address** *ipv6-unicast-address*

Description Entry type

Default router

Options host, router

Introduced 16.0.R1

table-size *number*

Context **configure service vpls** *service-name* **proxy-nd**

Description Maximum number of learned and static entries allowed in the proxy table of this service

Range 1 to 16383

Default 250

Introduced 16.0.R1

routed-vpls

Context **configure service vpls** *service-name*

Description Enter the routed-vpls context

Introduced 16.0.R1

multicast

Context **configure service vpls** *service-name* **routed-vpls**

Description Enter the multicast context

Introduced 16.0.R1

ipv4

Context **configure service vpls** *service-name* **routed-vpls multicast**

Description Enter the ipv4 context

Introduced 16.0.R1

forward-to-ip-interface *boolean*

Context **configure service vpls** *service-name* **routed-vpls multicast ipv4**

Description Forward IPv4 multicast from RVPLS to L3 interface

Default false

Introduced 16.0.R1

igmp-snooping

Context **configure service vpls** *service-name* **routed-vpls multicast ipv4**

Description Enter the igmp-snooping context

Introduced 16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **routed-vpls multicast ipv4 igmp-snooping**
Description	VPLS L3 interface as a multicast router port
Default	false
Introduced	16.0.R1

ipv6

Context	**configure service vpls** *service-name* **routed-vpls multicast**
Description	Enter the ipv6 context
Introduced	16.0.R1

forward-to-ip-interface *boolean*

Context	**configure service vpls** *service-name* **routed-vpls multicast ipv6**
Description	Forward IPv6 multicast from RVPLS to L3 interface
Default	false
Introduced	16.0.R1

mld-snooping

Context	**configure service vpls** *service-name* **routed-vpls multicast ipv6**
Description	Enter the mld-snooping context
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **routed-vpls multicast ipv6 mld-snooping**
Description	VPLS L3 interface as a multicast router port
Default	false
Introduced	16.0.R1

vxlan-ipv4-tep-ecmp *boolean*

Context	**configure service vpls** *service-name* **routed-vpls**
Description	Use ECMP on VXLAN IPv4 destinations for R-VPLS services
Default	false
Introduced	16.0.R1

sap [sap-id] *sap*

Context	**configure service vpls** *service-name*
Description	Enter the sap context
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Accounting policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Administrative state of the SAP
Default	enable
Options	enable, disable
Introduced	16.0.R1

anti-spoof *keyword*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Type of anti-spoof filtering
Options	source-ip-addr, source-mac-addr, source-ip-and-mac-addr, next-hop-ip-and-mac-addr
Introduced	16.0.R1

arp-host

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the arp-host context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **arp-host**
Description	Administrative state of ARP hosts
Default	disable
Options	enable, disable
Introduced	16.0.R1

host-limit *number*

Context	**configure service vpls** *service-name* **sap** *sap* **arp-host**
Description	Maximum number of ARP triggered hosts
Range	1 to 131071
Default	1
Introduced	16.0.R1

min-auth-interval *number*

Context	**configure service vpls** *service-name* **sap** *sap* **arp-host**
Description	Minimal time that has to pass before incoming ARPs of an active ARP host are re-authenticated
Range	1 to 6000
Default	15
Units	minutes
Introduced	16.0.R1

arp-reply-agent *keyword*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enable arp-reply-agent function
Options	true, with-subscr-ident
Introduced	16.0.R1

bandwidth *number*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	SAP bandwidth
Range	1 to 3200000000
Units	kilobps
Introduced	16.0.R1

calling-station-id *string*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Calling station ID
String Length	1 to 64
Introduced	16.0.R1

cflowd *boolean*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enable Cflowd collection and analysis on this SAP
Default	false
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Collect accounting statistics
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service vpls** *service-name* **sap** *sap* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service vpls** *service-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service vpls** *service-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service vpls** *service-name* **sap** *sap* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context **configure service vpls** *service-name* **sap** *sap* **cpu-protection**
Description CPM protection policy
Reference configure **system security cpu-protection policy** *number*
Introduced 16.0.R4

description *string*

Context **configure service vpls** *service-name* **sap** *sap*
Description Text description
String Length 1 to 160
Introduced 16.0.R1

dhcp

Context **configure service vpls** *service-name* **sap** *sap*
Description Enter the dhcp context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp**
Description Administrative state of DHCP
Default disable
Options enable, disable
Introduced 16.0.R4

description *string*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp**
Description Add/remove a text description for DHCP.
String Length 1 to 80
Introduced 16.0.R4

lease-populate

Context **configure service vpls** *service-name* **sap** *sap* **dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

max-leases *number*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp lease-populate**

Description Maximum number of DHCPv4 leases

Range 0 to 131071

Default 0

Introduced 16.0.R4

option-82

Context **configure service vpls** *service-name* **sap** *sap* **dhcp**

Description Enter the option-82 context

Introduced 16.0.R4

action *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82**

Description What to do with DHCP option 82.

Default keep

Options replace, drop, keep

Introduced 16.0.R4

circuit-id

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82**

Description Enter the circuit-id context

Introduced 16.0.R4

ascii-tuple

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 circuit-id**
Description	Use ascii-tuple in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 circuit-id**
Description	Use user-defined hexadecimal string in the option
String Length	1 to 66
Introduced	16.0.R4
Notes	This element is part of a choice

none

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 circuit-id**
Description	Do not include the circuit-id.
Introduced	16.0.R4
Notes	This element is part of a choice

vlan-ascii-tuple

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 circuit-id**
Description	Use vlan-ascii-tuple in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

remote-id

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82**
Description	Enter the remote-id context
Introduced	16.0.R4

ascii-string *string*

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 remote-id**
Description	Use user-defined ASCII string in the option.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 remote-id**
Description	Use user-defined hexadecimal string in the option.
String Length	1 to 66
Introduced	16.0.R4
Notes	This element is part of a choice

mac

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 remote-id**
Description	Use MAC address in the option.
Introduced	16.0.R4
Notes	This element is part of a choice

none

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82 remote-id**
Description	Do not include the remote-id.
Introduced	16.0.R4
Notes	This element is part of a choice

vendor-specific-option

Context	**configure service vpls** *service-name* **sap** *sap* **dhcp option-82**
Description	Enter the vendor-specific-option context
Introduced	16.0.R4

client-mac-address *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context **configure service vpls** *service-name* **sap** *sap* **dhcp**

Description Enter the proxy-server context

Introduced 16.0.R4

admin-state *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp proxy-server**

Description Administrative state of DHCP proxy

Default disable

Options enable, disable

Introduced 16.0.R1

emulated-server *ipv4-unicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp proxy-server**

Description IP address used as the DHCP server address in the context of this service

Introduced 16.0.R1

lease-time

Context **configure service vpls** *service-name* **sap** *sap* **dhcp proxy-server**

Description Enter the lease-time context

Introduced 16.0.R1

radius-override *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp proxy-server lease-time**

Description Use lease time information provided by RADIUS server

Default false

Introduced 16.0.R1

value *number*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp proxy-server lease-time**
Description DHCP lease time
Range 300 to 315446399
Units seconds
Introduced 16.0.R1

snoop *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **dhcp**
Description DHCP snooping.
Default false
Introduced 16.0.R4

dist-cpu-protection *string*

Context **configure service vpls** *service-name* **sap** *sap*
Description Distributed CPU protection policy for SAP
Reference configure **system security dist-cpu-protection policy** *string*
Introduced 16.0.R1

egress

Context **configure service vpls** *service-name* **sap** *sap*
Description Enter the egress context
Introduced 16.0.R1

agg-rate

Context **configure service vpls** *service-name* **sap** *sap* **egress**
Description Enter the agg-rate context
Introduced 16.0.R1

limit-unused-bandwidth *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **egress agg-rate**

Description Enable aggregate rate overrun protection

Default false

Introduced 16.0.R1

queue-frame-based-accounting *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **egress agg-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress agg-rate**

Description Maximum total rate of all egress queues in kbps.

Range 1 to 3200000000

Introduced 16.0.R1

dest-mac-rewrite *mac-unicast-address-no-zero*

Context **configure service vpls** *service-name* **sap** *sap* **egress**

Description Destination MAC overwrite for unicast

Introduced 16.0.R5

filter

Context **configure service vpls** *service-name* **sap** *sap* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress filter**

Description IP filter identifier

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress filter**

Description MAC filter identifier

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vpls** *service-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

policer-control-policy

Context **configure service vpls** *service-name* **sap** *sap* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Priority level
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Minimum amount of cumulative buffer space allowed
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

policy-name *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos policer-control-policy**
Description	Policer control policy name
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

qinq-mark-top-only *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos**
Description	Mark top Q-tags
Default	false
Introduced	16.0.R1

sap-egress

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos**
Description	Enter the sap-egress context
Introduced	16.0.R1

overrides

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress**
Description	Enter the overrides context
Introduced	16.0.R1

hs-secondary-shaper *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	HS Secondary Shaper
String Length	1 to 32
Introduced	16.0.R1

hs-wrr-group [group-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hs-wrr-group context
Introduced	16.0.R4

[group-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	HS WRR group identifier
Reference	configure **qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

hs-class-weight *number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Weight of scheduling class.
Range	1 | 2 | 4 | 8
Introduced	16.0.R1

percent-rate *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR percent.
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-queues

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hsmda-queues context
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Packet byte offset for HSMDA queue
Range	-64 to 31
Introduced	16.0.R1

queue [queue-id] *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**

Description Enter the queue context

Introduced 16.0.R4

[queue-id] *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Egress HSMDA queue ID

Reference configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Buffer space allowed for the queue

Units bytes

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Administrative PIR rate.

Introduced 16.0.R1

slope-policy *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Name of the slope-policy which is used to override the default slope-policy for the named buffer pool.

Reference configure **qos hsmda-slope-policy** *string*

Introduced 16.0.R1

wrr-weight *number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*
Description	Weight value for the HSMDA queue
Range	1 to 32
Introduced	16.0.R1

secondary-shaper *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Secondary shaper for the HSMDA queue
String Length	1 to 32
Introduced	16.0.R1

wrr-policy *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	WRR policy for the HSMDA queue
Reference	configure **qos hsmda-wrr-policy** *string*
Introduced	16.0.R1

policer [policer-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the policer context
Introduced	16.0.R4

[policer-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description CBS

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Size of each packet, handled by the policer, to be modified

Range -64 to 31

Introduced 16.0.R1

percent-rate

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Mode of statistics collected by the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

avg-frame-overhead *decimal-number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Encapsulation overhead, in centipercent, used to translate packet-based rate to frame-based rate and vice versa.

Range 0.00 to 100.00

Introduced 16.0.R1

burst-limit (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Explicit shaping burst size of a queue.

Range 1 to 14000000

Options auto

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobytes

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

hs-class-weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Scheduling class weight.

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

hs-wred-queue

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the hs-wred-queue context

Introduced 16.0.R1

policy *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **hs-wred-queue**

Description Name of slope-policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R1

hs-wrr-weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Weighted Round Robin (WRR) weight to parent with this queue into the scheduler

Range 1 to 127

Default 1

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Units kilobytes

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Monitor queue depth
Default	false
Introduced	16.0.R1

parent

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the parent context
Introduced	16.0.R1

cir-weight *number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**
Description	CIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

weight *number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**
Description	PIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

percent-rate

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**

Description PIR rate

Range 1 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

policy-name *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress**

Description Policy identifier

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

port-redirect-group

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Policy for port redirect queue group

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Instance of port queue group

Range 1 to 65535

Introduced 16.0.R1

scheduler-policy

Context **configure service vpls** *service-name* **sap** *sap* **egress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R4

scheduler [scheduler-name] *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service vpls** *service-name* **sap** *sap* **egress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

eth-cfm

Context **configure service vpls** *service-name* **sap** *sap*

Description Enter the eth-cfm context

Introduced 16.0.R1

collect-lmm-fc-stats

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm**

Description Enter the collect-lmm-fc-stats context

Introduced 16.0.R1

fc *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**

Description Forwarding class name for which to create an individual profile-unaware counter

Options be, l2, af, l1, h2, ef, h1, nc

Max. Elements 8

Introduced 16.0.R1

fc-in-profile *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the ais context
Introduced	16.0.R1

client-meg-level *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Client MEG level for AIS message generation
Range	1 to 7
Max. Elements	7
Introduced	16.0.R1

interface-support *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Allow generation of AIS PDUs based on the associated endpoint state
Default	false
Introduced	16.0.R1

interval *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Transmission interval for AIS messages
Range	1 | 60
Default	1
Units	seconds
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the alarm-notification context

Introduced 16.0.R1

fng-alarm-time *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**

Description Time to expire before a Fault Notification Generation (FNG) alarm

Range 250 | 500 | 1000

Units centiseconds

Introduced 16.0.R1

fng-reset-time *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**

Description Time to expire before a Fault Notification Generation (FNG) alarm is reset

Range 250 | 500 | 1000

Units centiseconds

Introduced 16.0.R1

ccm *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Generate CCM messages

Default false

Introduced 16.0.R1

ccm-ltm-priority *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Priority of CCM and LTM messages transmitted by the MEP

Range 0 to 7

Default 7

Introduced 16.0.R1

ccm-padding-size *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Additional octets inserted into CCM PDU for data TLV padding

Range 3 to 1500

Introduced 16.0.R1

csf

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**

Description Receive period multiplier to time out CSF

Range 0.0 | 2.0 to 30.0

Default 3.5

Introduced 16.0.R1

description *string*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

direction *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Direction the MEP faces

Options down, up

Introduced 16.0.R1

eth-test

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP

Default true

Introduced 16.0.R1

lbm-svc-act-responder *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Process service activation streams encapsulated in ETH-CFM request Loopback Message

Default false

Introduced 16.0.R1

low-priority-defect *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Lowest priority defect that is allowed to generate a fault alarm

Default mac-rem-err-xcon

Options all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon

Introduced 16.0.R1

mac-address *mac-unicast-address*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

primary-vlan *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MEP provisioned using MA primary VLAN ID
Default	false
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

vmep-filter *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **eth-cfm**
Description	Suppress eth-cfm PDUs based on level lower than or equal to configured Virtual MEP
Default	false
Introduced	16.0.R1

eth-ring *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Ethernet ring operation
Range	0 to 128
Introduced	16.0.R1

etree-leaf *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enable etree leaf access-circuit status
Default	false
Introduced	16.0.R1

etree-root-leaf-tag

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the etree-root-leaf-tag context
Introduced	16.0.R1

leaf *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap* **etree-root-leaf-tag**
Description	Leaf tag value
Range	1 to 4094
Introduced	16.0.R1
Notes	This element is mandatory

fdb

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the fdb context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Enable automatic update of MAC protect list
Default	false
Introduced	16.0.R1

discard-unknown-source *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Discard frames with unknown source
Default	false
Introduced	16.0.R1

discard-unprotected-dest-mac *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Enable/disable unprotected dest MAC restriction
Default	false
Introduced	16.0.R1

limit-mac-move *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	MAC move
Default	blockable
Options	blockable, non-blockable
Introduced	16.0.R1

mac-learning

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Enter the mac-learning context
Introduced	16.0.R1

aging *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb mac-learning**
Description	Enable aging of MAC addresses
Default	true
Introduced	16.0.R1

learning *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb mac-learning**
Description	Enable learning of new MAC addresses
Default	true
Introduced	16.0.R1

mac-pinning *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Enable MAC address pinning on this SAP
Default	false
Introduced	16.0.R1

maximum-mac-addresses *number*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Maximum number of MAC entries in the FDB
Range	1 to 511999
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **fdb**
Description	Action to take whenever a relearn request for a protected MAC is received
Options	sap-oper-down, alarm-only, discard
Introduced	16.0.R1

host-admin-state *keyword*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Administrative state of hosts
Default	enable
Options	enable, disable
Introduced	16.0.R1

host-lockout-policy *string*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Host lockout policy
Reference	configure **subscriber-mgmt host-lockout-policy** *string*
Introduced	16.0.R1

i-vpls-mac-flush

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the i-vpls-mac-flush context
Introduced	16.0.R1

bgp-evpn

Context **configure service vpls** *service-name* **sap** *sap* **i-vpls-mac-flush**

Description Enter the bgp-evpn context

Introduced 16.0.R1

send-to-bvpls *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **i-vpls-mac-flush bgp-evpn**

Description Send B-VPLS EVPN flush

Default true

Introduced 16.0.R1

igmp-host-tracking

Context **configure service vpls** *service-name* **sap** *sap*

Description Enter the igmp-host-tracking context

Introduced 16.0.R1

expiry-time *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-host-tracking**

Description Time during which the system continues to track inactive hosts

Range 1 to 65535

Units seconds

Introduced 16.0.R1

import-policy *string*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-host-tracking**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-group-sources *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-host-tracking**

Description Maximum number of multicast groups to be tracked per group

Range 1 to 32000

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-host-tracking**

Description Maximum number of multicast groups to be tracked

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-host-tracking**

Description Maximum number of multicast sources to be tracked

Range 1 to 1000

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-host-tracking**

Description Enable IGMP router alert check option

Default true

Introduced 16.0.R1

igmp-snooping

Context **configure service vpls** *service-name* **sap** *sap*

Description Enter the igmp-snooping context

Introduced 16.0.R1

fast-leave *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Allow IGMP fast leave processing
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Maximum group source combinations
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Maximum groups allowed
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Maximum sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping**

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

level [level-id] *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints**

Description Enter the level context

Introduced 16.0.R1

[level-id] *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints level** *number*

Description Bandwidth level ID for a multicast CAC constraint

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

bandwidth *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints level** *number*

Description Bandwidth available for this level

Range 0 to 2147483647

Introduced 16.0.R1

Notes This element is mandatory

number-down [number-lag-port-down] *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints**

Description Enter the number-down context

Introduced 16.0.R1

[number-lag-port-down] *number*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints number-down** *number*

Description Number of LAG ports down

Range 1 to 64

Introduced 16.0.R1

Notes This element is part of a list key

level *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping mcac**
Description	Multicast CAC policy name
Reference	configure **mcac policy** *string*
Introduced	16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

mvr

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Enter the mvr context
Introduced	16.0.R1

from-vpls *string*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping mvr**
Description	MVR VPLS from which the multicast channels are taken
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1

to-sap *sap*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping mvr**
Description	Multicast channels copied to SAP
Introduced	16.0.R1

query-interval *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Time between group-specific query messages
Range	1 to 50
Default	10
Units	deciseconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Number of retries to cope with message loss.
Range	2 to 7
Default	2
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Enable IP router alert check option
Default	true
Introduced	16.0.R1

send-queries *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Generate IGMP general queries
Default	false
Introduced	16.0.R1

static

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv4-multicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping static**

Description Enter the group context

Introduced 16.0.R1

[group-address] *ipv4-multicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping static group** *ipv4-multicast-address*

Description Group address of multicast channel

Introduced 16.0.R1

Notes This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping static group** *ipv4-multicast-address*

Description Enter the **source** context

Introduced 16.0.R3

[source-address] *ipv4-unicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*

Description Source address of multicast channel.

Introduced 16.0.R3

Notes This element is part of a choice

This element is part of a list key

starg

Context **configure service vpls** *service-name* **sap** *sap* **igmp-snooping static group** *ipv4-multicast-address*

Description any source address (*,G)

Introduced 16.0.R3

Notes This element is part of a choice

version *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **igmp-snooping**
Description	IGMP protocol version
Default	3
Options	1, 2, 3
Introduced	16.0.R1

ingress

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the ingress context
Introduced	16.0.R1

filter

Context	**configure service vpls** *service-name* **sap** *sap* **ingress**
Description	Enter the filter context
Introduced	16.0.R1

ip *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress filter**
Description	IP filter identifier
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

ipv6 *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress filter**
Description	IPv6 filter identifier
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R1

mac *string*

Context **configure service vpls** *service-name* **sap** *sap* **ingress filter**

Description MAC filter identifier

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vpls** *service-name* **sap** *sap* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policer-control-policy

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Priority level
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Minimum amount of cumulative buffer space allowed
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

policy-name *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos policer-control-policy**
Description	Policer control policy name
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

sap-ingress

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos**
Description	Enter the sap-ingress context
Introduced	16.0.R1

fp-redirect-group

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress**
Description	Enter the fp-redirect-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**
Description	Forwarding-plane queue group policy
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1

instance *number*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**
Description	Queue group instance
Range	1 to 65535
Introduced	16.0.R1

overrides

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress**
Description	Enter the overrides context
Introduced	16.0.R4

policer [policer-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides**
Description	Enter the policer context
Introduced	16.0.R4

[policer-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description CBS

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Size of each packet, handled by the policer, to be modified

Range -32 to 31

Introduced 16.0.R1

percent-rate

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Mode of statistics collected by the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobps

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Monitor queue depth

Default false

Introduced 16.0.R1

parent

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**

Description CIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**

Description PIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

percent-rate

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**

Description CIR percent rate

Range 0.00 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

pir *decimal-number*

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

policy-name *string*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress**

Description Policy identifier

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R1

queuing-type *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos sap-ingress**

Description Ingress queuing type

Options shared, multipoint-shared

Introduced 16.0.R1

scheduler-policy

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R4

scheduler [scheduler-name] *string*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service vpls** *service-name* **sap** *sap* **ingress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

qtag-manipulation

Context **configure service vpls** *service-name* **sap** *sap* **ingress**

Description Enter the qtag-manipulation context

Introduced 16.0.R1

push-dot1q-vlan (*number* | *keyword*)

Context **configure service vpls** *service-name* **sap** *sap* **ingress qtag-manipulation**

Description VLAN translation information

Introduced 16.0.R1

Notes This element is part of a choice

l2pt

Context **configure service vpls** *service-name* **sap** *sap*
Description Enter the l2pt context
Introduced 16.0.R1

termination

Context **configure service vpls** *service-name* **sap** *sap* **l2pt**
Description Enter the termination context
Introduced 16.0.R1

protocols

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination**
Description Enter the protocols context
Introduced 16.0.R1

cdp *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination protocols**
Description Enable Cisco discovery protocol
Default false
Introduced 16.0.R1

dtp *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination protocols**
Description Enable dynamic trunking protocol
Default false
Introduced 16.0.R1

pagp *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination protocols**
Description Enable/disable port aggregation protocol.
Default false
Introduced 16.0.R1

stp *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination protocols**
Description Enable/disable spanning tree protocols stp/mstp/pvst/rstp.
Default true
Introduced 16.0.R1

udld *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination protocols**
Description Enable/disable unidirectional link detection.
Default false
Introduced 16.0.R1

vtp *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **l2pt termination protocols**
Description Enable/disable virtual trunk protocol.
Default false
Introduced 16.0.R1

l2tpv3-session

Context **configure service vpls** *service-name* **sap** *sap*
Description Enter the l2tpv3-session context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **l2tpv3-session**
Description Adminstrative state of the entry.
Default disable
Options enable, disable
Introduced 16.0.R1

pseudo-wire

Context **configure service vpls** *service-name* **sap** *sap* **l2tpv3-session**

Description Enter the pseudo-wire context

Introduced 16.0.R1

ethernet

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vpls** *service-name* **sap** *sap* **l2tpv3-session pseudo-wire**

Description Ethernet type.

Introduced 16.0.R1

Notes This element is part of a choice

ethernet-vlan-id *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vpls** *service-name* **sap** *sap* **l2tpv3-session pseudo-wire**

Description Ethernet VLAN identifier.

Range 0 to 4095

Introduced 16.0.R1

Notes This element is part of a choice

router

Context **configure service vpls** *service-name* **sap** *sap* **l2tpv3-session**

Description Enter the router context

Introduced 16.0.R1

group *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap* **l2tpv3-session router**
Description	Tunnel group name.
String Length	1 to 32
Introduced	16.0.R1

router-instance *router-instance-base-vprn-loose*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap* **l2tpv3-session router**
Description	Router instance hosting the l2tpv3 session.
String Length	1 to 64
Introduced	16.0.R1

vc-id *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap* **l2tpv3-session**
Description	VC identifier.
Range	1 to 4294967295
Introduced	16.0.R1

lag

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the lag context
Introduced	16.0.R1

link-map-profile *number*

Context	**configure service vpls** *service-name* **sap** *sap* **lag**
Description	LAG link map profile applied to a SAP or network interface
Range	1 to 64
Introduced	16.0.R1

per-link-hash

Context	**configure service vpls** *service-name* **sap** *sap* **lag**
Description	Enter the per-link-hash context
Introduced	16.0.R1

class *number*

Context	**configure service vpls** *service-name* **sap** *sap* **lag per-link-hash**
Description	Class used on LAG egress when using weighted per-link-hash
Range	1 to 3
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure service vpls** *service-name* **sap** *sap* **lag per-link-hash**
Description	Weight used on LAG egress when using weighted per-link-hash
Range	1 to 1024
Default	1
Introduced	16.0.R1

mc-ring

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the mc-ring context
Introduced	16.0.R1

ring-node *string*

Context	**configure service vpls** *service-name* **sap** *sap* **mc-ring**
Description	Name for the ring node associated with this SAP
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

mld-snooping

Context **configure service vpls** *service-name* **sap** *sap*

Description Enter the mld-snooping context

Introduced 16.0.R1

fast-leave *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Allow IGMP fast leave processing

Default false

Introduced 16.0.R1

import-policy *string*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Maximum groups allowed

Range 1 to 16000

Introduced 16.0.R1

mrouter-port *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Port as a multicast router port

Default false

Introduced 16.0.R1

mvr

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Enter the mvr context

Introduced 16.0.R1

from-vpls *string*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping mvr**

Description MVR VPLS from which the multicast channels are taken

Reference configure **service vpls** *service-name*

Introduced 16.0.R1

to-sap *sap*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping mvr**

Description The SAP to which the multicast channels are copied

Introduced 16.0.R1

query-interval *number*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Time between two consecutive host-query messages

Range 2 to 1024

Default 125

Units seconds

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping**

Description Time between group-specific query messages

Range 1 to 50

Default 10

Units deciseconds

Introduced 16.0.R1

query-response-interval *number*

Context	**configure service vpls** *service-name* **sap** *sap* **mld-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vpls** *service-name* **sap** *sap* **mld-snooping**
Description	Number of retries to cope with message loss.
Range	2 to 7
Default	2
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **mld-snooping**
Description	Enable IP router alert check option
Default	true
Introduced	16.0.R1

send-queries *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **mld-snooping**
Description	Generate IGMP general queries
Default	false
Introduced	16.0.R1

static

Context	**configure service vpls** *service-name* **sap** *sap* **mld-snooping**
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv6-multicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping static**

Description Enter the group context

Introduced 16.0.R1

[group-address] *ipv6-multicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping static group** *ipv6-multicast-address*

Description Group address of multicast channel

Introduced 16.0.R1

Notes This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping static group** *ipv6-multicast-address*

Description Enter the **source** context

Introduced 16.0.R3

[source-address] *ipv6-unicast-address*

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping static group** *ipv6-multicast-address* **source** *ipv6-unicast-address*

Description Source address of multicast channel.

Introduced 16.0.R3

Notes This element is part of a choice

This element is part of a list key

starg

Context **configure service vpls** *service-name* **sap** *sap* **mld-snooping static group** *ipv6-multicast-address*

Description any source address (*,G)

Introduced 16.0.R3

Notes This element is part of a choice

version *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **mld-snooping**
Description	MLD protocol version.
Default	2
Options	1, 2
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Monitor operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

multi-service-site *string*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Multi service site name
String Length	1 to 32
Introduced	16.0.R1

oper-group *string*

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

pim-snooping

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the pim-snooping context
Introduced	16.0.R1

maximum-number-groups *number*

Context **configure service vpls** *service-name* **sap** *sap* **pim-snooping**

Description Maximum groups for this interface

Range 1 to 16000

Introduced 16.0.R1

process-cpm-traffic-on-sap-down *boolean*

Context **configure service vpls** *service-name* **sap** *sap*

Description Process CPM traffic on SAP down event

Default false

Introduced 16.0.R4

radius-auth-policy *string*

Context **configure service vpls** *service-name* **sap** *sap*

Description RADIUS authentication policy

Reference configure **subscriber-mgmt radius-authentication-policy** *string*

Introduced 16.0.R4

shcv-policy-ipv4 *string*

Context **configure service vpls** *service-name* **sap** *sap*

Description Subscriber host connectivity verification policy for IPv4

Reference configure **subscriber-mgmt shcv-policy** *external-named-item*

Introduced 16.0.R1

split-horizon-group *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vpls** *service-name* **sap** *sap*

Description Split horizon group

Reference configure **service vpls** *service-name* **split-horizon-group** *string*

Introduced 16.0.R1

static-host

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the static-host context
Introduced	16.0.R1

ipv4 [ip] *ipv4-address* mac *mac-unicast-address*

Context	**configure service vpls** *service-name* **sap** *sap* **static-host**
Description	Enter the ipv4 context
Introduced	16.0.R1

[ip] *ipv4-address*

Context	**configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	IP address
Introduced	16.0.R1
Notes	This element is part of a list key

mac *mac-unicast-address*

Context	**configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	MAC address
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Administrative state of the static host
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp-string *ancp-string*

Context **configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description ANCP string

String Length 1 to 63

Introduced 16.0.R1

int-dest-id *int-dest-id*

Context **configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description Intermediate destination ID

String Length 1 to 32

Introduced 16.0.R1

shcv

Context **configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description Enter the shcv context

Introduced 16.0.R4

sla-profile *string*

Context **configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description SLA profile name

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description Sub-profile name

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context	**configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Enter the subscriber-id context
Introduced	16.0.R1

string *subscriber-id*

Context	**configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Subscriber identification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

use-sap-id

Context	**configure service vpls** *service-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Use the SAP id as subscriber ID
Introduced	16.0.R1
Notes	This element is part of a choice

stp

Context	**configure service vpls** *service-name* **sap** *sap*
Description	Enter the stp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **sap** *sap* **stp**
Description	Enable/disable spanning-tree-protocol
Default	enable
Options	enable, disable
Introduced	16.0.R1

auto-edge *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **stp**

Description Enable/disable automatic detection of edge-port.

Default true

Introduced 16.0.R1

edge-port *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **stp**

Description Configure as edge-port.

Default false

Introduced 16.0.R1

link-type *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **stp**

Description Configure STP link-type

Default pt-pt

Options pt-pt, shared

Introduced 16.0.R1

path-cost *number*

Context **configure service vpls** *service-name* **sap** *sap* **stp**

Description Configure path-cost

Range 1 to 200000000

Default 10

Introduced 16.0.R1

port-num *number*

Context **configure service vpls** *service-name* **sap** *sap* **stp**

Description Configure virtual port number

Range 1 to 2047

Introduced 16.0.R1

priority *number*

Context **configure service vpls** *service-name* **sap** *sap* **stp**
Description Configure STP priority
Range 0 to 255
Default 128
Introduced 16.0.R1

root-guard *boolean*

Context **configure service vpls** *service-name* **sap** *sap* **stp**
Description Enable/disable STP root-guard
Default false
Introduced 16.0.R1

sub-sla-mgmt

Context **configure service vpls** *service-name* **sap** *sap*
Description Enter the sub-sla-mgmt context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt**
Description Administrative state of subscriber management on this SAP
Default disable
Options enable, disable
Introduced 16.0.R1

defaults

Context **configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt**
Description Enter the defaults context
Introduced 16.0.R1

int-dest-id

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Enter the int-dest-id context
Introduced	16.0.R1

string *int-dest-id*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults int-dest-id**
Description	Use the configured string
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

top-q-tag

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults int-dest-id**
Description	Use the top Q-tag of this SAP
Introduced	16.0.R1
Notes	This element is part of a choice

sla-profile *string*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Default SLA profile for hosts on this SAP
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Default subscriber profile used for subscribers on this SAP
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

subscriber-id

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Enter the subscriber-id context
Introduced	16.0.R1

auto-id

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**
Description	Use auto-generated subscriber identification string
Introduced	16.0.R1
Notes	This element is part of a choice

sap-id

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**
Description	Use SAP ID as default subscriber identification string
Introduced	16.0.R1
Notes	This element is part of a choice

string *subscriber-id*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**
Description	Subscriber ID policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

mac-da-hashing *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt**
Description	Use destination MAC address instead of subscriber ID to select egress LAG link
Default	false
Introduced	16.0.R1

single-sub-parameters

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt**
Description	Enter the single-sub-parameters context
Introduced	16.0.R1

non-sub-traffic

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters**
Description	Enter the non-sub-traffic context
Introduced	16.0.R1

sla-profile *string*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**
Description	SLA profile applicable for all non-subscriber traffic
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

sub-profile *string*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**
Description	Subscriber IDprofile applied for all non-subscriber traffic
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

subscriber-id *subscriber-id*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**
Description	Subscriber ID applied for all non-subscriber traffic
String Length	1 to 32
Introduced	16.0.R1

profiled-traffic-only *boolean*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters**
Description	Include all traffic in subscriber profile
Default	false
Introduced	16.0.R1

sub-ident-policy *string*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt**
Description	Subscriber identification policy used on this SAP
Reference	configure **subscriber-mgmt sub-ident-policy** *external-named-item*
Introduced	16.0.R1

subscriber-limit *sap-subscriber-limit*

Context	**configure service vpls** *service-name* **sap** *sap* **sub-sla-mgmt**
Description	Maximum number of subscribers on this SAP
Default	1
Introduced	16.0.R1

service-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name*
Description	Unique service ID; cannot be used by any other service, regardless of service type
Range	1 to 2147483647
Introduced	16.0.R1

service-mtu *number*

Context	**configure service vpls** *service-name*
Description	MTU size
Range	1 to 9194
Default	1514
Introduced	16.0.R1

shcv-policy-ipv4 *string*

Context	**configure service vpls** *service-name*
Description	Subscriber host connectivity verification policy for IPv4
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

split-horizon-group [shg-name] *string*

Context	**configure service vpls** *service-name*
Description	Enter the split-horizon-group context
Introduced	16.0.R1

[shg-name] *string*

Context	**configure service vpls** *service-name* **split-horizon-group** *string*
Description	Name for the service split-horizon-group
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure service vpls** *service-name* **split-horizon-group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fdb

Context	**configure service vpls** *service-name* **split-horizon-group** *string*
Description	Enter the fdb context
Introduced	16.0.R1

saps

Context	**configure service vpls** *service-name* **split-horizon-group** *string* **fdb**
Description	Enter the saps context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service vpls** *service-name* **split-horizon-group** *string* **fdb saps**
Description	Populate automatically MAC protect list with MAC addresses learned on SDP with split horizon group
Default	false
Introduced	16.0.R1

discard-unprotected-dest-mac *boolean*

Context	**configure service vpls** *service-name* **split-horizon-group** *string* **fdb saps**
Description	Enable/disable unprotected dest MAC restriction
Default	false
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service vpls** *service-name* **split-horizon-group** *string* **fdb saps**
Description	Action to take whenever a relearn request for a protected MAC is received
Options	sap-oper-down, alarm-only, discard
Introduced	16.0.R1

residential *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **split-horizon-group** *string*
Description	Define as a residential split horizon group
Default	false
Introduced	16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service vpls** *service-name*
Description	Enter the spoke-sdp context
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Policy to collect accounting statistics
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enter the bfd-liveness context

Introduced 16.0.R1

encap *keyword*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **bfd-liveness**

Description BFD encapsulation used on this SDP binding

Default ipv4

Options ipv4

Introduced 16.0.R1

bfd-template *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description BFD template associated with SDP binding

Reference configure **bfd bfd-template** *string*

Introduced 16.0.R1

block-on-mesh-failure *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enable blocking after all configured SDPs or endpoints are in operationally down state

Default false

Introduced 16.0.R1

collect-stats *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description Allow agent to collect accounting statistics

Default false

Introduced 16.0.R1

control-word *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Use the control word as preferred
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**
Description	CPM protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dhcp

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the dhcp context
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **dhcp**
Description	Text description
String Length	1 to 80
Introduced	16.0.R4

snoop *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **dhcp**
Description	Allow DHCP snooping of DHCP messages on the SAP or SDP
Default	false
Introduced	16.0.R4

egress

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the egress context
Introduced	16.0.R1

filter

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress**
Description	Enter the filter context
Introduced	16.0.R1

ip *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress filter**
Description	IP filter ID
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

ipv6 *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress filter**
Description	IPv6 filter identifier
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R1

mac *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description MAC filter ID

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

mfib-allowed-mda-destinations

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the mfib-allowed-mda-destinations context

Introduced 16.0.R1

mda [mda-id] *slot-mda*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress mfib-allowed-mda-destinations**

Description Enter the mda context

Introduced 16.0.R1

[mda-id] *slot-mda*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress mfib-allowed-mda-destinations mda** *slot-mda*

Description MFIB allowed MDA destination

Introduced 16.0.R1

Notes This element is part of a list key

qos

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos**

Description Enter the network context

Introduced 16.0.R1

policy-name *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network**
Description	Egress network policy name applied to this SDP binding
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

port-redirect-group

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network**
Description	Enter the port-redirect-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**
Description	Policy for port queue group for this SDP binding
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1

instance *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**
Description	Instance of the port egress Queue Group for this SDP binding.
Range	1 to 65535
Introduced	16.0.R1

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **egress**
Description	Static MPLS VC label that is used to send packets to the far end device through this SDP
Range	16 to 1048575
Introduced	16.0.R1

endpoint

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the endpoint context
Introduced	16.0.R1

name *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Name of endpoint to which this SDP bind is attached.
Reference	configure **service vpls** *service-name* **endpoint** *string*
Introduced	16.0.R1

precedence (*number* | *keyword*)

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **endpoint**
Description	Precedence of this SDP bind when there are multiple SDP binds attached to one service endpoint
Default	4
Introduced	16.0.R1

entropy-label

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Whether the use of entropy-label is enabled or not.
Introduced	16.0.R1
Notes	This element is part of a choice

eth-cfm

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the eth-cfm context
Introduced	16.0.R1

collect-lmm-fc-stats

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the ais context
Introduced	16.0.R1

client-meg-level *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Client MEG level for AIS message generation
Range	1 to 7
Max. Elements	7
Introduced	16.0.R1

interface-support *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Allow generation of AIS PDUs based on the associated endpoint state
Default	false
Introduced	16.0.R1

interval *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Transmission interval for AIS messages
Range	1 | 60
Default	1
Units	seconds
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Lowest priority defect for MEP AIS generation
Default	all-def
Options	all-def, mac-rem-err-xcon
Introduced	16.0.R1

priority *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **ais**
Description	Priority of AIS messages originated by the node
Range	0 to 7
Default	7
Introduced	16.0.R1

alarm-notification

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**

Description Receive period multiplier to time out CSF

Range 0.0 | 2.0 to 30.0

Default 3.5

Introduced 16.0.R1

description *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

direction *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Direction the MEP faces

Options down, up

Introduced 16.0.R1

eth-test

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

lbm-svc-act-responder *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Process service activation streams encapsulated in ETH-CFM request Loopback Message
Default	false
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

mac-address *mac-unicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MAC address for the MEP
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

primary-vlan *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	MEP provisioned using MA primary VLAN ID
Default	false
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

vmep-filter *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Suppress eth-cfm PDUs based on level lower than or equal to configured Virtual MEP
Default	false
Introduced	16.0.R1

etree-leaf *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enable etree leaf access-circuit status
Default	false
Introduced	16.0.R1

etree-root-leaf-tag *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	E-tree root leaf tag status
Default	false
Introduced	16.0.R1

fdb

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the fdb context
Introduced	16.0.R1

auto-learn-mac-protect *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	Populate automatically MAC protect list with source MAC addresses learned on SDP
Default	false
Introduced	16.0.R1

discard-unknown-source *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	Discard packets with unknown destination MAC addresses
Default	false
Introduced	16.0.R1

limit-mac-move *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	MAC move
Default	blockable
Options	blockable, non-blockable
Introduced	16.0.R1

mac-learning

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	Enter the mac-learning context
Introduced	16.0.R1

aging *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb mac-learning**
Description	Enable aging of MAC addresses
Default	true
Introduced	16.0.R1

learning *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb mac-learning**
Description	Enable learning of new MAC addresses
Default	true
Introduced	16.0.R1

mac-pinning *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	MAC address pinning in active status
Default	false
Introduced	16.0.R1

maximum-mac-addresses *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	Maximum MAC entries in the FDB from this SDP
Range	1 to 511999
Introduced	16.0.R1

protected-src-mac-violation-action *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **fdb**
Description	Action when a relearn request for a protected MAC is received on the SDP
Options	sdp-bind-oper-down, alarm-only, discard
Introduced	16.0.R1

force-vc-forwarding *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	VC forwarding status
Options	vlan, qinq-c-tag-c-tag, qinq-s-tag-c-tag
Introduced	16.0.R1

hash-label

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the **hash-label** context
Introduced	16.0.R1

signal-capability

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **hash-label**
Description	To signal the hash label capability to the remote PE.
Introduced	16.0.R1
Notes	This element is part of a choice

i-vpls-mac-flush

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the i-vpls-mac-flush context
Introduced	16.0.R1

bgp-evpn

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **i-vpls-mac-flush**
Description	Enter the bgp-evpn context
Introduced	16.0.R1

send-to-bvpls *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **i-vpls-mac-flush bgp-evpn**
Description	Send B-VPLS EVPN flush
Default	true
Introduced	16.0.R1

igmp-snooping

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the igmp-snooping context
Introduced	16.0.R1

fast-leave *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**
Description	Allow IGMP fast leave processing
Default	false
Introduced	16.0.R1

import-policy *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-group-sources *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Maximum group source combinations

Range 1 to 32000

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Maximum groups allowed

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Maximum sources that are allowed per group

Range 1 to 1000

Introduced 16.0.R1

mcac

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**
Description	Port as a multicast router port
Default	false
Introduced	16.0.R1

query-interval *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**
Description	Time between group-specific query messages
Range	1 to 50
Default	10
Units	deciseconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Number of retries to cope with message loss.

Range 2 to 7

Default 2

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Enable IP router alert check option

Default true

Introduced 16.0.R1

send-queries *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Generate IGMP general queries

Default false

Introduced 16.0.R1

static

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**

Description Enter the static context

Introduced 16.0.R1

group [group-address] *ipv4-multicast-address*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping static**

Description Enter the group context

Introduced 16.0.R1

[group-address] *ipv4-multicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping static group** *ipv4-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

version *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **igmp-snooping**
Description	IGMP protocol version
Default	3
Options	1, 2, 3
Introduced	16.0.R1

ignore-standby-signaling *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description Ignore standby-bit received from TLDP peers when performing internal tasks

Default false

Introduced 16.0.R1

ingress

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mac *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description MAC filter ID

Reference configure **filter mac-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**

Description Forwarding-plane queue group policy for this SDP binding

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**
Description	Instance of the forwarding-plane ingress Queue Group for this SDP binding
Range	1 to 65535
Introduced	16.0.R1

policy-name *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**
Description	Ingress network policy name applied to this SDP binding
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	1 to 1048575
Introduced	16.0.R1

l2pt

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the l2pt context
Introduced	16.0.R1

termination

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt**
Description	Enter the termination context
Introduced	16.0.R1

protocols

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination**

Description Enter the protocols context

Introduced 16.0.R1

cdp *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination protocols**

Description Enable Cisco discovery protocol

Default false

Introduced 16.0.R1

dtp *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination protocols**

Description Enable dynamic trunking protocol

Default false

Introduced 16.0.R1

pagp *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination protocols**

Description Enable/disable port aggregation protocol.

Default false

Introduced 16.0.R1

stp *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination protocols**

Description Enable/disable spanning tree protocols stp/mstp/pvst/rstp.

Default true

Introduced 16.0.R1

udld *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination protocols**

Description Enable/disable unidirectional link detection.

Default false

Introduced 16.0.R1

vtp *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **l2pt termination protocols**

Description Enable/disable virtual trunk protocol.

Default false

Introduced 16.0.R1

mld-snooping

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*

Description Enter the mld-snooping context

Introduced 16.0.R1

fast-leave *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**

Description Allow IGMP fast leave processing

Default false

Introduced 16.0.R1

import-policy *string*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**

Description Maximum groups allowed

Range 1 to 16000

Introduced 16.0.R1

mrouter-port *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**

Description Port as a multicast router port

Default false

Introduced 16.0.R1

query-interval *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**

Description Time between two consecutive host-query messages

Range 2 to 1024

Default 125

Units seconds

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**

Description Time between group-specific query messages

Range 1 to 50

Default 10

Units deciseconds

Introduced 16.0.R1

query-response-interval *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**
Description	Number of retries to cope with message loss.
Range	2 to 7
Default	2
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**
Description	Enable IP router alert check option
Default	true
Introduced	16.0.R1

send-queries *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**
Description	Generate IGMP general queries
Default	false
Introduced	16.0.R1

static

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv6-multicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv6-multicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping static group** *ipv6-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

version *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **mld-snooping**
Description	MLD protocol version.
Default	2
Options	1, 2
Introduced	16.0.R1

monitor-oper-group *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Operational group identifier that affect the state of this SDP bind
Reference	configure **service oper-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

oper-group *string*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Operational group identifier
Reference	configure **service oper-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

pim-snooping

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the pim-snooping context
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **pim-snooping**
Description	Maximum groups for this interface
Range	1 to 16000
Introduced	16.0.R1

pw-status

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the pw-status context
Introduced	16.0.R1

signaling *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **pw-status**
Description	Whether this SDP binding supports pseudowire status signaling.
Default	true
Introduced	16.0.R1

split-horizon-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Name of the split horizon group where the spoke SDP bind belongs to
Reference	configure **service vpls** *service-name* **split-horizon-group** *string*
Introduced	16.0.R1

stp

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the stp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**
Description	Enable/disable spanning-tree-protocol
Default	enable
Options	enable, disable
Introduced	16.0.R1

auto-edge *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**

Description Enable/disable automatic detection of edge-port.

Default true

Introduced 16.0.R1

edge-port *boolean*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**

Description Configure as edge-port.

Default false

Introduced 16.0.R1

link-type *keyword*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**

Description Configure STP link-type

Default pt-pt

Options pt-pt, shared

Introduced 16.0.R1

path-cost *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**

Description Configure path-cost

Range 1 to 200000000

Default 10

Introduced 16.0.R1

port-num *number*

Context **configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**

Description Configure virtual port number

Range 1 to 2047

Introduced 16.0.R1

priority *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**
Description	Configure STP priority
Range	0 to 255
Default	128
Introduced	16.0.R1

root-guard *boolean*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id* **stp**
Description	Enable/disable STP root-guard
Default	false
Introduced	16.0.R1

vc-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	Type of virtual circuit (VC) associated with the SDP binding; VPLS not supported
Default	ether
Options	ether, vlan
Introduced	16.0.R1

vlan-vc-tag *number*

Context	**configure service vpls** *service-name* **spoke-sdp** *sdp-bind-id*
Description	SDP bind VC tag
Range	0 to 4094
Introduced	16.0.R1

stp

Context	**configure service vpls** *service-name*
Description	Enter the stp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **stp**
Description	Enable/disable spanning tree protocol (STP)
Default	disable
Options	enable, disable
Introduced	16.0.R1

forward-delay *number*

Context	**configure service vpls** *service-name* **stp**
Description	Configure forward-delay
Range	4 to 30
Default	15
Introduced	16.0.R1

hello-time *number*

Context	**configure service vpls** *service-name* **stp**
Description	Configure hello-time
Range	1 to 10
Default	2
Introduced	16.0.R1

hold-count *number*

Context	**configure service vpls** *service-name* **stp**
Description	Configure BPDU transmit hold count
Range	1 to 20
Default	6
Introduced	16.0.R1

maximum-age *number*

Context	**configure service vpls** *service-name* **stp**
Description	Configure maximum STP information age
Range	6 to 40
Default	20
Introduced	16.0.R1

mode *keyword*

Context	**configure service vpls** *service-name* **stp**
Description	Configure protocol version
Default	rstp
Options	rstp, comp-dot1w, dot1w, mstp, pmstp
Introduced	16.0.R1

priority *number*

Context	**configure service vpls** *service-name* **stp**
Description	Configure STP bridge priority
Range	0 to 65535
Default	32768
Introduced	16.0.R1

temp-flooding *number*

Context	**configure service vpls** *service-name*
Description	Temporary flooding
Range	3 to 600
Units	seconds
Introduced	16.0.R1

vpn-id *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name*
Description	VPN identifier for the service
Range	1 to 2147483647
Introduced	16.0.R1

vxlan

Context	**configure service vpls** *service-name*
Description	Enter the vxlan context
Introduced	16.0.R1

instance [vxlan-instance] *number*

Context	**configure service vpls** *service-name* **vxlan**
Description	Enter the instance context
Introduced	16.0.R1

[vxlan-instance] *number*

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	VXLAN instance
Range	1 to 2
Default	1
Introduced	16.0.R1
Notes	This element is part of a list key

assisted-replication

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enter the assisted-replication context
Introduced	16.0.R1

leaf

Context	**configure service vpls** *service-name* **vxlan instance** *number* **assisted-replication**
Description	Enter the **leaf** context
Introduced	16.0.R1

acttime *number*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **assisted-replication leaf**
Description	Time for the leaf to wait before sending traffic to a new replicator
Range	1 to 255
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

replicator

Context	**configure service vpls** *service-name* **vxlan instance** *number* **assisted-replication**
Description	AR role as replicator
Introduced	16.0.R1
Notes	This element is part of a choice

egress-vtep [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enter the egress-vtep context
Introduced	16.0.R4

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vpls** *service-name* **vxlan instance** *number* **egress-vtep** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	configure egress vtep address for entry
Introduced	16.0.R4
Notes	This element is part of a list key

fdb

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enter the fdb context
Introduced	16.0.R4

discard-unknown-source *boolean*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **fdb**
Description	Enable/disable discarding of frames with unknown source
Default	false
Introduced	16.0.R4

mac-learning

Context	**configure service vpls** *service-name* **vxlan instance** *number* **fdb**
Description	Enter the mac-learning context
Introduced	16.0.R4

aging *boolean*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **fdb mac-learning**
Description	Enable/disable aging of MAC addresses
Default	false
Introduced	16.0.R4

learning *boolean*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **fdb mac-learning**
Description	Enable/disable learning of new MAC addresses
Default	false
Introduced	16.0.R4

maximum-mac-addresses *number*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **fdb**
Description	Maximum number of MAC entries in the FDB from this vxlan instance
Range	1 to 511999
Introduced	16.0.R4

protected-src-mac-violation-action *keyword*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **fdb**
Description	Action when a relearn request for a protected MAC is received
Options	discard
Introduced	16.0.R1

igmp-snooping

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enter the **igmp-snooping** context
Introduced	16.0.R5

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **igmp-snooping**
Description	Configure as a multicast router port.
Default	false
Introduced	16.0.R5

mld-snooping

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enter the **mld-snooping** context
Introduced	16.0.R5

mrouter-port *boolean*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **mld-snooping**
Description	Configure as a multicast router port.
Default	false
Introduced	16.0.R5

network

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enter the network context
Introduced	16.0.R1

ingress

Context **configure service vpls** *service-name* **vxlan instance** *number* **network**

Description Enter the ingress context

Introduced 16.0.R1

qos

Context **configure service vpls** *service-name* **vxlan instance** *number* **network ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vpls** *service-name* **vxlan instance** *number* **network ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context **configure service vpls** *service-name* **vxlan instance** *number* **network ingress qos network**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vpls** *service-name* **vxlan instance** *number* **network ingress qos network fp-redirect-group**

Description Forwarding-plane queue group policy for this SDP binding

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **network ingress qos network fp-redirect-group**
Description	Instance of the forwarding-plane ingress Queue Group for this SDP binding
Range	1 to 65535
Introduced	16.0.R1

policy-name *string*

Context	**configure service vpls** *service-name* **vxlan instance** *number* **network ingress qos network**
Description	Ingress network policy name applied to this SDP binding
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

rx-discard-on-ndf *keyword*

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	specifies the type of multicast traffic discarded on the receive side of when the vxlan instance is NDF
Default	bm
Options	bm, bum, none
Introduced	16.0.R4

source-vtep-security *boolean*

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	Enable/disable source vtep security
Default	false
Introduced	16.0.R4

vni *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **vxlan instance** *number*
Description	VNI of the VXLAN
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory

source-vtep (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vpls** *service-name* **vxlan**
Description	Vxlan source virtual tunnel endpoint information
Introduced	16.0.R4

wlan-gw

Context	**configure service vpls** *service-name*
Description	Enter the wlan-gw context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vpls** *service-name* **wlan-gw**
Description	Administrative state of WLAN-GW
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vpls** *service-name* **wlan-gw**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

sap-template *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vpls** *service-name* **wlan-gw**
Description	Template used when creating internal SAPs towards ISAs
Reference	configure **service template vpls-sap-template** *string*
Introduced	16.0.R1

vprn [service-name] *service-name*

Context	**configure service**
Description	Enter the vprn context
Introduced	16.0.R1

[service-name] *service-name*

Context	**configure service vprn** *service-name*
Description	Name of the service
String Length	1 to 64
Introduced	16.0.R4
Notes	This element is part of a list key

aaa

Context	**configure service vprn** *service-name*
Description	Enter the aaa context
Introduced	16.0.R1

remote-servers

Context	**configure service vprn** *service-name* **aaa**
Description	Enter the remote-servers context
Introduced	16.0.R1

radius

Context	**configure service vprn** *service-name* **aaa remote-servers**
Description	Enter the radius context
Introduced	16.0.R1

access-algorithm *keyword*

Context **configure service vprn** *service-name* **aaa remote-servers radius**

Description Configure the algorithm used to access the set of RADIUS servers.

Default direct

Options direct, round-robin

Introduced 16.0.R1

accounting *boolean*

Context **configure service vprn** *service-name* **aaa remote-servers radius**

Description Enable/disable RADIUS command accounting.

Default false

Introduced 16.0.R1

accounting-port *number*

Context **configure service vprn** *service-name* **aaa remote-servers radius**

Description Port number on which to contact RADIUS server for accounting requests.

Range 1 to 65535

Default 1813

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **aaa remote-servers radius**

Description Enable/disable RADIUS protocol operation.

Default enable

Options enable, disable

Introduced 16.0.R1

authorization *boolean*

Context **configure service vprn** *service-name* **aaa remote-servers radius**

Description Enable/disable RADIUS command authorization.

Default false

Introduced 16.0.R1

interactive-authentication *boolean*

Context	**configure service vprn** *service-name* **aaa remote-servers radius**
Description	Enable/disable RADIUS interactive authentication.
Default	false
Introduced	16.0.R1

port *number*

Context	**configure service vprn** *service-name* **aaa remote-servers radius**
Description	Port number on which to contact RADIUS server.
Range	1 to 65535
Default	1812
Introduced	16.0.R1

server [index] *number*

Context	**configure service vprn** *service-name* **aaa remote-servers radius**
Description	Enter the server context
Max. Elements	5
Introduced	16.0.R1

[index] *number*

Context	**configure service vprn** *service-name* **aaa remote-servers radius server** *number*
Description	Unique number which identifies a specific RADIUS server.
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **aaa remote-servers radius server** *number*
Description	IP address of Radius server.
Introduced	16.0.R1
Notes	This element is mandatory

secret *encrypted-leaf*

Context	**configure service vprn** *service-name* **aaa remote-servers radius server** *number*
Description	The secret key associated with RADIUS server. The value of secret cannot be set to an empty string.
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is mandatory

server-retry *number*

Context	**configure service vprn** *service-name* **aaa remote-servers radius**
Description	Number of attempts to retry contacting RADIUS.
Range	1 to 10
Default	3
Introduced	16.0.R1

server-timeout *number*

Context	**configure service vprn** *service-name* **aaa remote-servers radius**
Description	Timeout for a response from RADIUS server.
Range	1 to 90
Default	3
Units	seconds
Introduced	16.0.R1

use-default-template *boolean*

Context	**configure service vprn** *service-name* **aaa remote-servers radius**
Description	Enable/disable RADIUS default template.
Default	false
Introduced	16.0.R1

tacplus

Context	**configure service vprn** *service-name* **aaa remote-servers**
Description	Enter the tacplus context
Introduced	16.0.R1

accounting

Context **configure service vprn** *service-name* **aaa remote-servers tacplus**

Description Enter the accounting context

Introduced 16.0.R1

record-type *keyword*

Context **configure service vprn** *service-name* **aaa remote-servers tacplus accounting**

Description Configure the type of accounting record packet that is to be sent to the TACACS+ server.

Default stop-only

Options start-stop, stop-only

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **aaa remote-servers tacplus**

Description Enable/disable TACACS+ protocol operation.

Default enable

Options enable, disable

Introduced 16.0.R1

authorization

Context **configure service vprn** *service-name* **aaa remote-servers tacplus**

Description Enter the authorization context

Introduced 16.0.R1

use-priv-lvl *boolean*

Context **configure service vprn** *service-name* **aaa remote-servers tacplus authorization**

Description Enable/disable the privilege level mapping.

Default false

Introduced 16.0.R1

interactive-authentication *boolean*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus**
Description	Enable/disable TACACS+ interactive authentication.
Default	false
Introduced	16.0.R1

priv-lvl-map

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus**
Description	Enter the priv-lvl-map context
Introduced	16.0.R1

priv-lvl [level] *number*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus priv-lvl-map**
Description	Enter the priv-lvl context
Introduced	16.0.R1

[level] *number*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus priv-lvl-map priv-lvl** *number*
Description	Specifies the privilege level for this mapping.
Range	0 to 15
Introduced	16.0.R1
Notes	This element is part of a list key

user-profile-name *string*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus priv-lvl-map priv-lvl** *number*
Description	Specifies the user profile for this mapping.
Reference	configure **system security aaa local-profiles profile** *string*
Introduced	16.0.R1
Notes	This element is mandatory

server [index] *number*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus**
Description	Enter the server context
Max. Elements	5
Introduced	16.0.R1

[index] *number*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus server** *number*
Description	Identifies a specific TACACS+ server.
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus server** *number*
Description	IP address of TACACS+ server.
Introduced	16.0.R1
Notes	This element is mandatory

port *number*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus server** *number*
Description	TCP port number on which to contact TACACS+ server.
Range	0 | 1 to 65535
Default	49
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus server** *number*
Description	The secret key associated with the TACACS+ server. The value of secret cannot be set to an empty string.
String Length	1 to 198
Introduced	16.0.R1
Notes	This element is mandatory

server-timeout *number*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus**
Description	Timeout for a response from an TACACS+ server.
Range	1 to 90
Default	3
Units	seconds
Introduced	16.0.R1

use-default-template *boolean*

Context	**configure service vprn** *service-name* **aaa remote-servers tacplus**
Description	Enable/disable TACACS+ default template.
Default	true
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name*
Description	Administrative state of the mirror destination service
Default	disable
Options	enable, disable
Introduced	16.0.R1

aggregates

Context	**configure service vprn** *service-name*
Description	Enter the aggregates context
Introduced	16.0.R1

aggregate [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **aggregates**
Description	Enter the aggregate context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)

Description IP address prefix to match for aggregation

Introduced 16.0.R1

Notes This element is part of a list key

aggregator

Context **configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)

Description Enter the aggregator context

Introduced 16.0.R1

address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*) **aggregator**

Description Aggregator IP address

Introduced 16.0.R1

as-number *number*

Context **configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*) **aggregator**

Description Aggregator Autonomous System Number (ASN)

Range 1 to max

Introduced 16.0.R1

as-set *boolean*

Context **configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)

Description Allow aggregate route as an AS-SET option

Default false

Introduced 16.0.R1

blackhole

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Enter the **blackhole** context
Introduced	16.0.R1

generate-icmp *boolean*

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*) **blackhole**
Description	Send ICMP unreachable messages when packets match an aggregate route with black-hole next-hop
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

community *community*

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Community name that is added to aggregate route
String Length	1 to 72
Max. Elements	12
Introduced	16.0.R1
Notes	This element is ordered by user

description *string*

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

indirect (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Address of indirect next hop
Introduced	16.0.R1
Notes	This element is part of a choice

local-preference *number*

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Default local preference if aggregate route is exported and advertised to BGP peers
Range	0 to 4294967295
Introduced	16.0.R1

summary-only *boolean*

Context	**configure service vprn** *service-name* **aggregates aggregate** (*ipv4-prefix* | *ipv6-prefix*)
Description	Advertise only the aggregate route and not the specific routes that make up the aggregate
Default	false
Introduced	16.0.R1

allow-export-bgp-vpn *boolean*

Context	**configure service vprn** *service-name*
Description	Include BGP-VPN routes for export
Default	false
Introduced	16.0.R1

auto-bind-tunnel

Context	**configure service vprn** *service-name*
Description	Enter the auto-bind-tunnel context
Introduced	16.0.R1

ecmp *number*

Context **configure service vprn** *service-name* **auto-bind-tunnel**

Description Maximum number of tunnels that can be used as ECMP next-hops for the VPRN

Range 1 to 32

Default 1

Introduced 16.0.R1

enforce-strict-tunnel-tagging *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel**

Description Consider only LSPs marked with an admin-tag for next-hop resolution

Default false

Introduced 16.0.R1

resolution *keyword*

Context **configure service vprn** *service-name* **auto-bind-tunnel**

Description Resolution method for tunnel selection

Default none

Options none, filter, any

Introduced 16.0.R4

resolution-filter

Context **configure service vprn** *service-name* **auto-bind-tunnel**

Description Enter the resolution-filter context

Introduced 16.0.R1

bgp *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**

Description Set BGP type for auto bind tunnel

Default true

Introduced 16.0.R1

gre *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting GRE type for auto-bind-tunnel
Default false
Introduced 16.0.R1

ldp *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting LDP type for auto-bind-tunnel
Default false
Introduced 16.0.R1

mpls-fwd-policy *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting MPLS Forwarding Policy type for auto-bind-tunnel
Default false
Introduced 16.0.R4

rib-api *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting RIB API type for auto-bind-tunnel
Default false
Introduced 16.0.R4

rsvp *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting RSVP-TE type for auto-bind-tunnel
Default false
Introduced 16.0.R1

sr-isis *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting SR-ISIS type for auto-bind-tunnel
Default false
Introduced 16.0.R1

sr-ospf *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting SR-OSPF type for auto-bind-tunnel
Default false
Introduced 16.0.R1

sr-policy *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting SR Policy type for auto-bind-tunnel
Default false
Introduced 16.0.R4

sr-te *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Enable/disable setting SR-TE type for auto-bind-tunnel
Default false
Introduced 16.0.R1

udp *boolean*

Context **configure service vprn** *service-name* **auto-bind-tunnel resolution-filter**
Description Set UDP type for auto-bind-tunnel
Default false
Introduced 16.0.R1

weighted-ecmp *boolean*

Context	**configure service vprn** *service-name* **auto-bind-tunnel**
Description	Allow weighted load-balancing
Default	false
Introduced	16.0.R1

autonomous-system *number*

Context	**configure service vprn** *service-name*
Description	Autonomous System number that is advertised to peer
Range	1 to max
Introduced	16.0.R1

bgp

Context	**configure service vprn** *service-name*
Description	Enter the bgp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **bgp**
Description	Administrative state of BGP instance
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-inactive *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Advertise inactive BGP routes to other BGP peers
Default	false
Introduced	16.0.R1

aggregator-id-zero *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Set router ID in aggregator path attribute to zero when BGP aggregates routes
Default	false
Introduced	16.0.R1

asn-4-byte *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Allow use of 4-byte ASNs
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **bgp**
Description	Configure the BGP authentication key for all peers.
String Length	1 to 370
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure service vprn** *service-name* **bgp**
Description	The value specifies the keychain which will be used to sign and/or authenticate the BGP protocol stream.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

backup-path

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the backup-path context
Introduced	16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp backup-path**

Description Support unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp backup-path**

Description Support unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp backup-path**

Description Support labeled unicast IPv4 routes

Default false

Introduced 16.0.R1

best-path-selection

Context **configure service vprn** *service-name* **bgp**

Description Enter the best-path-selection context

Introduced 16.0.R1

always-compare-med

Context **configure service vprn** *service-name* **bgp best-path-selection**

Description Enter the always-compare-med context

Introduced 16.0.R1

med-value *keyword*

Context	**configure service vprn** *service-name* **bgp best-path-selection always-compare-med**
Description	MED path attribute
Default	off
Options	off, missing-med-zero, missing-med-infinity, on
Introduced	16.0.R1

strict-as *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection always-compare-med**
Description	Compare MED path attribute between routes from same neighbor AS only
Default	true
Introduced	16.0.R1

as-path-ignore

Context	**configure service vprn** *service-name* **bgp best-path-selection**
Description	Enter the as-path-ignore context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection as-path-ignore**
Description	Support IPv4 address family
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection as-path-ignore**
Description	Support IPv6 address family
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection as-path-ignore**
Description	Support labeled IPv4 address family
Default	false
Introduced	16.0.R1

deterministic-med *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection**
Description	Use deterministic MED for BGP instance
Default	false
Introduced	16.0.R1

ebgp-ibgp-equal

Context	**configure service vprn** *service-name* **bgp best-path-selection**
Description	Enter the ebgp-ibgp-equal context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection ebgp-ibgp-equal**
Description	Load balance eBGP and iBGP paths for unlabeled unicast IPv4 routes
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection ebgp-ibgp-equal**
Description	Load balance eBGP and iBGP paths for unlabeled unicast IPv6 routes
Default	false
Introduced	16.0.R1

label-ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection ebgp-ibgp-equal**
Description	Load balance eBGP and iBGP paths for labeled unicast IPv4 routes
Default	false
Introduced	16.0.R1

ignore-nh-metric *boolean*

Context	**configure service vprn** *service-name* **bgp best-path-selection**
Description	Ignore next hop metric for best routes of base router BGP instance
Default	false
Introduced	16.0.R1

ignore-router-id

Context	**configure service vprn** *service-name* **bgp best-path-selection**
Description	Enter the ignore-router-id context
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Use Bidirectional Forwarding Detection
Default	false
Introduced	16.0.R1

client-reflect *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Enable client reflection of routes by the route reflector
Default	true
Introduced	16.0.R1

cluster

Context **configure service vprn** *service-name* **bgp**

Description Enter the cluster context

Introduced 16.0.R1

cluster-id *ipv4-address*

Context **configure service vprn** *service-name* **bgp cluster**

Description Cluster ID for route reflector server

Introduced 16.0.R1

connect-retry *number*

Context **configure service vprn** *service-name* **bgp**

Description BGP connect retry timer value

Range 1 to 65535

Default 120

Introduced 16.0.R1

damp-peer-oscillations

Context **configure service vprn** *service-name* **bgp**

Description Enter the damp-peer-oscillations context

Introduced 16.0.R1

error-interval *number*

Context **configure service vprn** *service-name* **bgp damp-peer-oscillations**

Description Error free interval after session reset, to return idle-hold-time to initial-wait

Range 0 to 2048

Default 30

Introduced 16.0.R1

idle-hold-time

Context **configure service vprn** *service-name* **bgp damp-peer-oscillations**

Description Enter the idle-hold-time context

Introduced 16.0.R1

initial-wait *number*

Context **configure service vprn** *service-name* **bgp damp-peer-oscillations idle-hold-time**

Description Time a session remains in idle state after session stabilized

Range 0 to 2048

Default 0

Introduced 16.0.R1

max-wait *number*

Context **configure service vprn** *service-name* **bgp damp-peer-oscillations idle-hold-time**

Description Maximum session idle time after repeated instability

Range 1 to 2048

Default 60

Introduced 16.0.R1

second-wait *number*

Context **configure service vprn** *service-name* **bgp damp-peer-oscillations idle-hold-time**

Description Time that doubles after each session failure within relatively short time

Range 1 to 2048

Default 5

Introduced 16.0.R1

damping *boolean*

Context **configure service vprn** *service-name* **bgp**

Description Use BGP route damping for learned routes defined within the route policy

Default false

Introduced 16.0.R1

description *string*

Context	**configure service vprn** *service-name* **bgp**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dynamic-neighbor-limit *number*

Context	**configure service vprn** *service-name* **bgp**
Description	Dynamic peer limit for BGP instance
Range	1 to 8192
Introduced	16.0.R1

eibgp-loadbalance *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Use ECMP over BGP VPN and BGP routes
Default	false
Introduced	16.0.R1

enforce-first-as *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Compare most recent ASN in AS_PATH attribute of each route to configured peer AS of session for match
Default	false
Introduced	16.0.R1

error-handling

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the error-handling context
Introduced	16.0.R1

update-fault-tolerance *boolean*

Context	**configure service vprn** *service-name* **bgp error-handling**
Description	Consider non-critical errors as treat-as-withdraw and do not trigger session reset
Default	false
Introduced	16.0.R1

export

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the export context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp export**
Description	Export policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

family

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the family context
Introduced	16.0.R1

flow-ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp family**
Description	Support flowspec IPv4 address family
Default	false
Introduced	16.0.R1

flow-ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp family**
Description Support flowspec IPv6 address family
Default false
Introduced 16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp family**
Description Support IPv4 address family
Default true
Introduced 16.0.R1

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp family**
Description Support IPv6 address family
Default false
Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp family**
Description Support labeled IPv4 address family
Default false
Introduced 16.0.R1

mcast-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp family**
Description Support multicast IPv4 address family
Default false
Introduced 16.0.R1

mcast-ipv6 *boolean*

Context	**configure service vprn** *service-name* **bgp family**
Description	Support multicast IPv6 address family
Default	false
Introduced	16.0.R1

fast-external-failover *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Specifies whether the router should drop an external BGP session immediately when the local interface goes down, or whether the BGP session should be kept up until the holdtime expires.
Default	true
Introduced	16.0.R1

flowspec

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the flowspec context
Introduced	16.0.R1

validate-dest-prefix *boolean*

Context	**configure service vprn** *service-name* **bgp flowspec**
Description	Validate received IPv4 and IPv6 flowspec routes that contain destination prefix
Default	false
Introduced	16.0.R1

validate-redirect-ip *boolean*

Context	**configure service vprn** *service-name* **bgp flowspec**
Description	Validate the redirect-to-IPv4 action attached to flowspec IPv4 routes received by the BGP instance
Default	false
Introduced	16.0.R1

graceful-restart

Context **configure service vprn** *service-name* **bgp**

Description Enter the graceful-restart context

Introduced 16.0.R1

gr-notification *boolean*

Context **configure service vprn** *service-name* **bgp graceful-restart**

Description Enable graceful restart capability indicating support for NOTIFICATION messages

Default false

Introduced 16.0.R1

long-lived

Context **configure service vprn** *service-name* **bgp graceful-restart**

Description Enter the long-lived context

Introduced 16.0.R1

advertise-stale-to-all-neighbors *boolean*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description Advertise BGP routes marked as LLGR stale to BGP peers

Default false

Introduced 16.0.R1

advertised-stale-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description Long-lived stale time that is advertised by router in its LLGR capability

Range 0 to 16777215

Default 86400

Introduced 16.0.R1

family [family-type] *keyword*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description Enter the family context

Introduced 16.0.R1

[family-type] *keyword*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived family** *keyword*

Description Address family type for LLGR

Options ipv4, ipv6, flow-ipv4, flow-ipv6, label-ipv4

Introduced 16.0.R1

Notes This element is part of a list key

advertised-stale-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived family** *keyword*

Description Long-lived stale time that is advertised by router in its LLGR capability

Range 0 to 16777215

Default 86400

Introduced 16.0.R1

helper-override-stale-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived family** *keyword*

Description Locally-imposed LLGR stale time

Range 0 to 16777215

Introduced 16.0.R1

forwarding-bits-set *keyword*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description BGP LLGR forwarding bit behavior for F bit in AFI or SAFI

Default none

Options none, all, non-fwd

Introduced 16.0.R1

helper-override-restart-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description Locally-imposed restart time for all AFI/SAFI included in the peer's GR capability

Range 0 to 4095

Introduced 16.0.R1

helper-override-stale-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description Locally-imposed LLGR stale time

Range 0 to 16777215

Introduced 16.0.R1

without-no-export *boolean*

Context **configure service vprn** *service-name* **bgp graceful-restart long-lived**

Description Allow LLGR stale routes to be advertised to any peer that did not signal the LLGR capability

Default false

Introduced 16.0.R1

restart-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart**

Description BGP graceful restart time

Range 0 to 4095

Default 120

Introduced 16.0.R1

stale-routes-time *number*

Context **configure service vprn** *service-name* **bgp graceful-restart**

Description Maximum time that stale routes maintain after graceful restart is initiated

Range 1 to 3600

Default 360

Introduced 16.0.R1

group [group-name] *string*

Context **configure service vprn** *service-name* **bgp**

Description Enter the group context

Introduced 16.0.R1

[group-name] *string*

Context **configure service vprn** *service-name* **bgp group** *string*

Description BGP peer group

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Administrative state of BGP group

Default enable

Options enable, disable

Introduced 16.0.R1

advertise-inactive *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Advertise inactive BGP routes to other BGP peers

Introduced 16.0.R1

aggregator-id-zero *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Set router ID in aggregator path attribute to zero when BGP aggregates routes

Introduced 16.0.R1

as-override *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Replace all instances of the peer's AS number with the local AS number in a BGP route's AS_PATH
Default	false
Introduced	16.0.R1

asn-4-byte *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Allow use of 4-byte ASNs
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Configure the BGP authentication key for all peers.
String Length	1 to 370
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	The value specifies the keychain which will be used to sign and/or authenticate the BGP protocol stream.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Use Bidirectional Forwarding Detection
Introduced	16.0.R1

capability-negotiation *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enable capability negotiation

Default true

Introduced 16.0.R1

client-reflect *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enable client reflection of routes by the route reflector

Introduced 16.0.R1

cluster

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the cluster context

Introduced 16.0.R1

cluster-id *ipv4-address*

Context **configure service vprn** *service-name* **bgp group** *string* **cluster**

Description Cluster ID for route reflector server

Introduced 16.0.R1

connect-retry *number*

Context **configure service vprn** *service-name* **bgp group** *string*

Description BGP connect retry timer value

Range 1 to 65535

Introduced 16.0.R1

damp-peer-oscillations

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the damp-peer-oscillations context

Introduced 16.0.R1

error-interval *number*

Context **configure service vprn** *service-name* **bgp group** *string* **damp-peer-oscillations**

Description Error free interval after session reset, to return idle-hold-time to initial-wait

Range 0 to 2048

Default 30

Introduced 16.0.R1

idle-hold-time

Context **configure service vprn** *service-name* **bgp group** *string* **damp-peer-oscillations**

Description Enter the idle-hold-time context

Introduced 16.0.R1

initial-wait *number*

Context **configure service vprn** *service-name* **bgp group** *string* **damp-peer-oscillations idle-hold-time**

Description Time a session remains in idle state after session stabilized

Range 0 to 2048

Default 0

Introduced 16.0.R1

max-wait *number*

Context **configure service vprn** *service-name* **bgp group** *string* **damp-peer-oscillations idle-hold-time**

Description Maximum session idle time after repeated instability

Range 1 to 2048

Default 60

Introduced 16.0.R1

second-wait *number*

Context **configure service vprn** *service-name* **bgp group** *string* **damp-peer-oscillations idle-hold-time**

Description Time that doubles after each session failure within relatively short time

Range 1 to 2048

Default 5

Introduced 16.0.R1

damping *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Use BGP route damping for learned routes defined within the route policy

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

dynamic-neighbor

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the dynamic-neighbor context

Introduced 16.0.R1

prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure service vprn** *service-name* **bgp group** *string* **dynamic-neighbor**

Description Enter the prefix context

Introduced 16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure service vprn** *service-name* **bgp group** *string* **dynamic-neighbor prefix** (*ipv4-prefix* | *ipv6-prefix*)

Description Prefix for dynamic BGP sessions in peer group

Introduced 16.0.R1

Notes This element is part of a list key

dynamic-neighbor-limit *number*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Dynamic peer limit for BGP instance

Range 1 to 8192

Introduced 16.0.R1

enforce-first-as *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Compare most recent ASN in AS_PATH attribute of each route to configured peer AS of session for match

Introduced 16.0.R1

error-handling

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the error-handling context

Introduced 16.0.R1

update-fault-tolerance *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **error-handling**

Description Consider non-critical errors as treat-as-withdraw and do not trigger session reset

Introduced 16.0.R1

export

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the export context

Introduced 16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp group** *string* **export**
Description	Export policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

family

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Enter the family context
Introduced	16.0.R1

flow-ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **family**
Description	Support flowspec IPv4 address family
Default	false
Introduced	16.0.R1

flow-ipv6 *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **family**
Description	Support flowspec IPv6 address family
Default	false
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **family**
Description	Support IPv4 address family
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **family**

Description Support IPv6 address family

Default false

Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **family**

Description Support labeled IPv4 address family

Default false

Introduced 16.0.R1

mcast-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **family**

Description Support multicast IPv4 address family

Default false

Introduced 16.0.R1

mcast-ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **family**

Description Support multicast IPv6 address family

Default false

Introduced 16.0.R1

fast-external-failover *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Specifies whether the router should drop an external BGP session immediately when the local interface goes down, or whether the BGP session should be kept up until the holdtime expires.

Introduced 16.0.R1

graceful-restart

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the graceful-restart context

Introduced 16.0.R1

gr-notification *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **graceful-restart**

Description Enable graceful restart capability indicating support for NOTIFICATION messages

Default false

Introduced 16.0.R1

long-lived

Context **configure service vprn** *service-name* **bgp group** *string* **graceful-restart**

Description Enter the long-lived context

Introduced 16.0.R1

advertise-stale-to-all-neighbors *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**

Description Advertise BGP routes marked as LLGR stale to BGP peers

Default false

Introduced 16.0.R1

advertised-stale-time *number*

Context **configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**

Description Long-lived stale time that is advertised by router in its LLGR capability

Range 0 to 16777215

Default 86400

Introduced 16.0.R1

family [family-type] *keyword*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**
Description	Enter the family context
Introduced	16.0.R1

[family-type] *keyword*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived family** *keyword*
Description	Address family type for LLGR
Options	ipv4, ipv6, flow-ipv4, flow-ipv6, label-ipv4
Introduced	16.0.R1
Notes	This element is part of a list key

advertised-stale-time *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived family** *keyword*
Description	Long-lived stale time that is advertised by router in its LLGR capability
Range	0 to 16777215
Default	86400
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived family** *keyword*
Description	Locally-imposed LLGR stale time
Range	0 to 16777216
Default	16777216
Introduced	16.0.R1

forwarding-bits-set *keyword*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**
Description	BGP LLGR forwarding bit behavior for F bit in AFI or SAFI
Default	none
Options	none, all, non-fwd
Introduced	16.0.R1

helper-override-restart-time *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**
Description	Locally-imposed restart time for all AFI/SAFI included in the peer's GR capability
Range	0 to 4095
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**
Description	Locally-imposed LLGR stale time
Range	0 to 16777215
Introduced	16.0.R1

without-no-export *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart long-lived**
Description	Allow LLGR stale routes to be advertised to any peer that did not signal the LLGR capability
Default	false
Introduced	16.0.R1

restart-time *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **graceful-restart**
Description	BGP graceful restart time
Range	0 to 4095
Default	300
Introduced	16.0.R1

stale-routes-time *number*

Context **configure service vprn** *service-name* **bgp group** *string* **graceful-restart**
Description Maximum time that stale routes maintain after graceful restart is initiated
Range 1 to 3600
Default 360
Introduced 16.0.R1

hold-time

Context **configure service vprn** *service-name* **bgp group** *string*
Description Enter the hold-time context
Introduced 16.0.R1

minimum-hold-time *number*

Context **configure service vprn** *service-name* **bgp group** *string* **hold-time**
Description Minimum hold time that is strictly enforced
Range 0 | 3 to 65536
Default 0
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **bgp group** *string* **hold-time**
Description BGP hold time
Range 0 | 3 to 65535
Introduced 16.0.R1

import

Context **configure service vprn** *service-name* **bgp group** *string*
Description Enter the import context
Introduced 16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp group** *string* **import**
Description	Specifies the name of the import policy. The name of the policy is limited to 64 characters except for the first policy.
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

initial-send-delay-zero *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Bypass minimum route advertisement interval and send BGP updates as soon as session comes up
Introduced	16.0.R1

keepalive *number*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Time after which the keepalive message is sent
Range	0 to 21845
Introduced	16.0.R1

label-preference *number*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Route preference for routes learned from labeled unicast peers
Range	1 to 255
Introduced	16.0.R1

link-bandwidth

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Enter the link-bandwidth context
Introduced	16.0.R3

accept-from-ebgp

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth**

Description Enter the accept-from-ebgp context

Introduced 16.0.R4

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

add-to-received-ebgp

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth**

Description Enter the add-to-received-ebgp context

Introduced 16.0.R3

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R3

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R3

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R3

aggregate-used-paths

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth**

Description Enter the aggregate-used-paths context

Introduced 16.0.R4

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

send-to-ebgp

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth**

Description Enter the send-to-ebgp context

Introduced 16.0.R4

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **link-bandwidth send-to-ebgp**
Description Support Link Bandwidth EC to labeled unicast IPv4 routes
Default false
Introduced 16.0.R4

local-address (*union* | *string*)

Context **configure service vprn** *service-name* **bgp group** *string*
Description Local IP address used by group when communicating with BGP peers
Introduced 16.0.R1

local-as

Context **configure service vprn** *service-name* **bgp group** *string*
Description Enter the local-as context
Introduced 16.0.R1

as-number *number*

Context **configure service vprn** *service-name* **bgp group** *string* **local-as**
Description BGP AS number
Range 1 to 4294967295
Introduced 16.0.R1

prepend-global-as *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **local-as**
Description Prepend global AS number when advertising routes to EBGP peer
Default true
Introduced 16.0.R1

private *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **local-as**
Description	Hide local AS number in paths learned from peering
Default	false
Introduced	16.0.R1

local-preference *number*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Default value for local preference attribute if not specified in incoming routes
Range	0 to 4294967295
Introduced	16.0.R1

loop-detect *keyword*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Loop detection strategy in AS path
Options	drop-peer, ignore-loop, off, discard-route
Introduced	16.0.R1

med-out (*number* | *keyword*)

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Multi-Exit Discriminator (MED) identifier
Options	igp-cost
Introduced	16.0.R1

min-route-advertisement *number*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Minimum interval between successive updates of prefix toward peer
Range	1 to 255
Introduced	16.0.R1

monitor

Context **configure service vprn** *service-name* **bgp group** *string*

Description Enter the monitor context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **bgp group** *string* **monitor**

Description Administrative state of BMP monitoring

Default disable

Options enable, disable

Introduced 16.0.R1

all-stations *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **monitor**

Description Use all BMP monitoring stations

Default false

Introduced 16.0.R1

route-monitoring

Context **configure service vprn** *service-name* **bgp group** *string* **monitor**

Description Enter the route-monitoring context

Introduced 16.0.R1

post-policy *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **monitor route-monitoring**

Description Send post-policy monitoring messages

Default false

Introduced 16.0.R1

pre-policy *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **monitor route-monitoring**
Description	Send pre-policy route monitoring messages
Default	false
Introduced	16.0.R1

station [station-name] *string*

Context	**configure service vprn** *service-name* **bgp group** *string* **monitor**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[station-name] *string*

Context	**configure service vprn** *service-name* **bgp group** *string* **monitor station** *string*
Description	BMP monitoring station
Reference	configure **bmp station** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

multihop *number*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	TTL value in the IP header of packets sent to a peer
Range	1 to 255
Introduced	16.0.R1

next-hop-self *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Advertise routes to peer using next hop path attribute set to itself
Default	false
Introduced	16.0.R1

passive *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*
Description Enable passive mode for BGP group
Default false
Introduced 16.0.R1

path-mtu-discovery *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*
Description Allow path MTU discovery for associated TCP connections
Introduced 16.0.R1

peer-as *number*

Context **configure service vprn** *service-name* **bgp group** *string*
Description AS number for all remote peers in group
Range 1 to 4294967295
Introduced 16.0.R1

peer-ip-tracking *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*
Description Allow BGP peer tracking
Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **bgp group** *string*
Description Route preference for routes learned from all peers
Range 1 to 255
Introduced 16.0.R1

prefix-limit [family] *keyword*

Context **configure service vprn** *service-name* **bgp group** *string*
Description Enter the prefix-limit context
Introduced 16.0.R1

[family] *keyword*

Context	**configure service vprn** *service-name* **bgp group** *string* **prefix-limit** *keyword*
Description	Address family to which the limit applies
Options	ipv4, ipv6, mcast-ipv4, flow-ipv4, flow-ipv6, mcast-ipv6, label-ipv4
Introduced	16.0.R1
Notes	This element is part of a list key

idle-timeout *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **prefix-limit** *keyword*
Description	Time that BGP peering remains idle before reconnecting to peers
Range	1 to 1024
Introduced	16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **prefix-limit** *keyword*
Description	Send warning message if specified threshold or limit is reached, without disabling BGP peer session
Default	false
Introduced	16.0.R1

maximum *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **prefix-limit** *keyword*
Description	Specifies the maximum number of routes that can be learned from this peer.
Range	1 to 4294967295
Introduced	16.0.R3
Notes	This element is mandatory

post-import *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **prefix-limit** *keyword*
Description	Apply prefix limit only to number of routes accepted by import policies
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **bgp group** *string* **prefix-limit** *keyword*
Description	Threshold value that triggers a warning message
Range	1 to 100
Default	90
Introduced	16.0.R1

remove-private

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Enter the remove-private context
Introduced	16.0.R1

limited *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **remove-private**
Description	Remove private AS numbers up to first public ASN encountered
Default	false
Introduced	16.0.R1

skip-peer-as *boolean*

Context	**configure service vprn** *service-name* **bgp group** *string* **remove-private**
Description	Keep a private ASN in the AS path if that ASN is the same as the BGP peer ASN
Default	false
Introduced	16.0.R1

send-communities

Context	**configure service vprn** *service-name* **bgp group** *string*
Description	Enter the send-communities context
Introduced	16.0.R1

extended *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **send-communities**

Description Enables the sending of community attribute to the peer for external communities.

Introduced 16.0.R1

large *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **send-communities**

Description Enables the sending of community attribute to the peer for large communities.

Introduced 16.0.R1

standard *boolean*

Context **configure service vprn** *service-name* **bgp group** *string* **send-communities**

Description Enables the sending of community attribute to the peer for non-external communities.

Introduced 16.0.R1

split-horizon *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Prevent routes from being reflected back to peer that sends best route

Introduced 16.0.R1

static-group *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Use group for static peers

Default true

Introduced 16.0.R1

third-party-nexthop *boolean*

Context **configure service vprn** *service-name* **bgp group** *string*

Description Send third party next hop to EBGP peers in same subnet as source peer

Introduced 16.0.R1

ttl-security *number*

Context **configure service vprn** *service-name* **bgp group** *string*
Description Minimum TTL value for incoming BGP packet
Range 1 to 255
Introduced 16.0.R1

type *keyword*

Context **configure service vprn** *service-name* **bgp group** *string*
Description BGP peer type
Default no-type
Options no-type, internal, external
Introduced 16.0.R1

hold-time

Context **configure service vprn** *service-name* **bgp**
Description Enter the hold-time context
Introduced 16.0.R1

minimum-hold-time *number*

Context **configure service vprn** *service-name* **bgp hold-time**
Description Minimum hold time that is strictly enforced
Range 0 | 3 to 65535
Default 0
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **bgp hold-time**
Description BGP hold time
Range 0 | 3 to 65535
Default 90
Introduced 16.0.R1

ibgp-multipath *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Add IBGP routes with multiple next hops to route table
Default	false
Introduced	16.0.R1

import

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the import context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp import**
Description	Import policy name
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

initial-send-delay-zero *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Bypass minimum route advertisement interval and send BGP updates as soon as session comes up
Default	false
Introduced	16.0.R1

keepalive *number*

Context	**configure service vprn** *service-name* **bgp**
Description	Time after which the keepalive message is sent
Range	0 to 21845
Default	30
Introduced	16.0.R1

label-preference *number*

Context	**configure service vprn** *service-name* **bgp**
Description	Route preference for routes learned from labeled unicast peers
Range	1 to 255
Default	170
Introduced	16.0.R1

local-as

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the local-as context
Introduced	16.0.R1

as-number *number*

Context	**configure service vprn** *service-name* **bgp local-as**
Description	BGP AS number
Range	1 to 4294967295
Introduced	16.0.R1

prepend-global-as *boolean*

Context	**configure service vprn** *service-name* **bgp local-as**
Description	Prepend global AS number when advertising routes to EBGP peer
Default	true
Introduced	16.0.R1

private *boolean*

Context	**configure service vprn** *service-name* **bgp local-as**
Description	Hide local AS number in paths learned from peering
Default	false
Introduced	16.0.R1

local-preference *number*

Context **configure service vprn** *service-name* **bgp**

Description Default value for local preference attribute if not specified in incoming routes

Default 100

Introduced 16.0.R1

loop-detect *keyword*

Context **configure service vprn** *service-name* **bgp**

Description Loop detection strategy in AS path

Default ignore-loop

Options drop-peer, ignore-loop, off, discard-route

Introduced 16.0.R1

med-out (*number* | *keyword*)

Context **configure service vprn** *service-name* **bgp**

Description Multi-Exit Discriminator (MED) identifier

Options igp-cost

Introduced 16.0.R1

min-route-advertisement *number*

Context **configure service vprn** *service-name* **bgp**

Description Minimum interval between successive updates of prefix toward peer

Range 1 to 255

Default 30

Introduced 16.0.R1

monitor

Context **configure service vprn** *service-name* **bgp**

Description Enter the monitor context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **bgp monitor**
Description	Administrative state of BMP monitoring
Default	disable
Options	enable, disable
Introduced	16.0.R1

all-stations *boolean*

Context	**configure service vprn** *service-name* **bgp monitor**
Description	Use all BMP monitoring stations
Default	false
Introduced	16.0.R1

route-monitoring

Context	**configure service vprn** *service-name* **bgp monitor**
Description	Enter the route-monitoring context
Introduced	16.0.R1

post-policy *boolean*

Context	**configure service vprn** *service-name* **bgp monitor route-monitoring**
Description	Send post-policy monitoring messages
Default	false
Introduced	16.0.R1

pre-policy *boolean*

Context	**configure service vprn** *service-name* **bgp monitor route-monitoring**
Description	Send pre-policy route monitoring messages
Default	false
Introduced	16.0.R1

station [station-name] *string*

Context	**configure service vprn** *service-name* **bgp monitor**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[station-name] *string*

Context	**configure service vprn** *service-name* **bgp monitor station** *string*
Description	BMP monitoring station
Reference	configure **bmp station** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

multihop *number*

Context	**configure service vprn** *service-name* **bgp**
Description	TTL value entered in IP header of packets sent to peer
Range	1 to 255
Introduced	16.0.R1

multipath

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the multipath context
Introduced	16.0.R1

ebgp *number*

Context	**configure service vprn** *service-name* **bgp multipath**
Description	Maximum multipaths per prefix or NLRI when best path is an EBGP learned route
Range	1 to 64
Introduced	16.0.R1

ibgp *number*

Context **configure service vprn** *service-name* **bgp multipath**

Description Maximum multipaths per prefix or NLRI when best path is an IBGP learned route

Range 1 to 64

Introduced 16.0.R1

max-paths *number*

Context **configure service vprn** *service-name* **bgp multipath**

Description Maximum multipaths per prefix or NLRI if EBGP or IBGP maximum paths do not apply

Range 1 to 64

Default 1

Introduced 16.0.R1

restrict *keyword*

Context **configure service vprn** *service-name* **bgp multipath**

Description Multipath restrictions

Default same-as-path-length

Options same-as-path-length, same-neighbor-as, exact-as-path

Introduced 16.0.R1

neighbor [ip-address] (*ipv4-address* | *ipv6-address*)

Context **configure service vprn** *service-name* **bgp**

Description Enter the neighbor context

Introduced 16.0.R1

[ip-address] (*ipv4-address* | *ipv6-address*)

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description IP address that the neighbor uses to communicate with BGP peers

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Administrative state of BGP peer
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-inactive *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Advertise inactive BGP routes to other BGP peers
Introduced	16.0.R1

aggregator-id-zero *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Set router ID in aggregator path attribute to zero when BGP aggregates routes
Introduced	16.0.R1

as-override *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Replace all instances of the peer's AS number with the local AS number in a BGP route's AS_PATH
Introduced	16.0.R1

asn-4-byte *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Allow use of 4-byte ASNs
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Configure the BGP authentication key for all peers.
String Length	1 to 370
Introduced	16.0.R1

authentication-keychain *string*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description The value specifies the keychain which will be used to sign and/or authenticate the BGP protocol stream.

Reference configure **system security keychains keychain** *string*

Introduced 16.0.R3

bfd-liveness *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Use Bidirectional Forwarding Detection

Introduced 16.0.R1

capability-negotiation *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enable capability negotiation

Introduced 16.0.R1

client-reflect *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enable client reflection of routes by the route reflector

Introduced 16.0.R1

cluster

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the cluster context

Introduced 16.0.R1

cluster-id *ipv4-address*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **cluster**

Description Cluster ID for route reflector server

Introduced 16.0.R1

connect-retry *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description BGP connect retry timer value

Range 1 to 65535

Introduced 16.0.R1

damp-peer-oscillations

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the damp-peer-oscillations context

Introduced 16.0.R1

error-interval *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations**

Description Error free interval after session reset, to return idle-hold-time to initial-wait

Range 0 to 2048

Default 30

Introduced 16.0.R1

idle-hold-time

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations**

Description Enter the idle-hold-time context

Introduced 16.0.R1

initial-wait *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations idle-hold-time**

Description Time a session remains in idle state after session stabilized

Range 0 to 2048

Default 0

Introduced 16.0.R1

max-wait *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations idle-hold-time**

Description Maximum session idle time after repeated instability

Range 1 to 2048

Default 60

Introduced 16.0.R1

second-wait *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **damp-peer-oscillations idle-hold-time**

Description Time that doubles after each session failure within relatively short time

Range 1 to 2048

Default 5

Introduced 16.0.R1

damping *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Use BGP route damping for learned routes defined within the route policy

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Text description

String Length 1 to 80

Introduced 16.0.R1

enforce-first-as *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Compare most recent ASN in AS_PATH attribute of each route to configured peer AS of session for match

Introduced 16.0.R1

error-handling

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the error-handling context

Introduced 16.0.R1

update-fault-tolerance *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **error-handling**

Description Consider non-critical errors as treat-as-withdraw and do not trigger session reset

Introduced 16.0.R1

export

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the export context

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **export**

Description Export policy name

String Length 1 to 255

Max. Elements 15

Min. Elements 1

Introduced 16.0.R1

Notes This element is ordered by user

family

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the family context

Introduced 16.0.R1

flow-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description Support flowspec IPv4 address family
Default false
Introduced 16.0.R1

flow-ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description Support flowspec IPv6 address family
Default false
Introduced 16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description Support IPv4 address family
Default false
Introduced 16.0.R1

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description Support IPv6 address family
Default false
Introduced 16.0.R1

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**
Description Support labeled IPv4 address family
Default false
Introduced 16.0.R1

mcast-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support multicast IPv4 address family

Default false

Introduced 16.0.R1

mcast-ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **family**

Description Support multicast IPv6 address family

Default false

Introduced 16.0.R1

fast-external-failover *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Specifies whether the router should drop an external BGP session immediately when the local interface goes down, or whether the BGP session should be kept up until the holdtime expires.

Introduced 16.0.R1

graceful-restart

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the graceful-restart context

Introduced 16.0.R1

gr-notification *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**

Description Enable graceful restart capability indicating support for NOTIFICATION messages

Default false

Introduced 16.0.R1

long-lived

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**

Description Enter the long-lived context

Introduced 16.0.R1

advertise-stale-to-all-neighbors *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**

Description Advertise BGP routes marked as LLGR stale to BGP peers

Default false

Introduced 16.0.R1

advertised-stale-time *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**

Description Long-lived stale time that is advertised by router in its LLGR capability

Range 0 to 16777215

Default 86400

Introduced 16.0.R1

family [family-type] *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**

Description Enter the family context

Introduced 16.0.R1

[family-type] *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived family** *keyword*

Description Address family type for LLGR

Options ipv4, ipv6, flow-ipv4, flow-ipv6, label-ipv4

Introduced 16.0.R4

Notes This element is part of a list key

advertised-stale-time *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived family** *keyword*
Description	Long-lived stale time that is advertised by router in its LLGR capability
Range	0 to 16777215
Default	86400
Introduced	16.0.R1

helper-override-stale-time *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived family** *keyword*
Description	Locally-imposed LLGR stale time
Range	0 to 16777216
Default	16777216
Introduced	16.0.R1

forwarding-bits-set *keyword*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	BGP LLGR forwarding bit behavior for F bit in AFI or SAFI
Default	none
Options	none, all, non-fwd
Introduced	16.0.R1

helper-override-restart-time *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**
Description	Locally-imposed restart time for all AFI/SAFI included in the peer's GR capability
Range	0 to 4095
Introduced	16.0.R1

helper-override-stale-time *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**

Description Locally-imposed LLGR stale time

Range 0 to 16777215

Introduced 16.0.R1

without-no-export *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart long-lived**

Description Allow LLGR stale routes to be advertised to any peer that did not signal the LLGR capability

Default false

Introduced 16.0.R1

restart-time *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**

Description BGP graceful restart time

Range 0 to 4095

Default 300

Introduced 16.0.R1

stale-routes-time *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **graceful-restart**

Description Maximum time that stale routes maintain after graceful restart is initiated

Range 1 to 3600

Default 360

Introduced 16.0.R1

group *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Neighbor to group
Reference	configure **service vprn** *service-name* **bgp group** *string*
Introduced	16.0.R4
Notes	This element is mandatory

hold-time

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the hold-time context
Introduced	16.0.R1

minimum-hold-time *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **hold-time**
Description	Minimum hold time that is strictly enforced
Range	0 | 3 to 65536
Default	0
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **hold-time**
Description	BGP hold time
Range	0 | 3 to 65535
Introduced	16.0.R1

import

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the import context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **import**
Description	Specifies the name of the import policy. The name of the policy is limited to 64 characters except for the first policy.
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

initial-send-delay-zero *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Bypass minimum route advertisement interval and send BGP updates as soon as session comes up
Introduced	16.0.R1

keepalive *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Time after which the keepalive message is sent
Range	0 to 21845
Introduced	16.0.R1

label-preference *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Route preference for routes learned from labeled unicast peers
Range	1 to 255
Introduced	16.0.R1

link-bandwidth

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the link-bandwidth context
Introduced	16.0.R4

accept-from-ebgp

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the accept-from-ebgp context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth accept-from-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

add-to-received-ebgp

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the add-to-received-ebgp context

Introduced 16.0.R3

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R3

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R3

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth add-to-received-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R3

aggregate-used-paths

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the aggregate-used-paths context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth aggregate-used-paths**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

send-to-ebgp

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth**

Description Enter the send-to-ebgp context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv4 routes

Default false

Introduced 16.0.R4

ipv6 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to unlabeled unicast IPv6 routes

Default false

Introduced 16.0.R4

label-ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **link-bandwidth send-to-ebgp**

Description Support Link Bandwidth EC to labeled unicast IPv4 routes

Default false

Introduced 16.0.R4

local-address (*union* | *string*)

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Local IP address used by neighbor when communicating with BGP peers

Introduced 16.0.R1

local-as

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the local-as context

Introduced 16.0.R1

as-number *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **local-as**

Description BGP AS number

Range 1 to 4294967295

Introduced 16.0.R1

prepend-global-as *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **local-as**

Description Prepend global AS number when advertising routes to EBGP peer

Default true

Introduced 16.0.R1

private *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **local-as**
Description Hide local AS number in paths learned from peering
Default false
Introduced 16.0.R1

local-preference *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Default value for local preference attribute if not specified in incoming routes
Range 0 to 4294967295
Introduced 16.0.R1

loop-detect *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Loop detection strategy in AS path
Options drop-peer, ignore-loop, off, discard-route
Introduced 16.0.R1

med-out (*number* | *keyword*)

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Multi-Exit Discriminator (MED) identifier
Options igp-cost
Introduced 16.0.R1

min-route-advertisement *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Minimum interval between successive updates of prefix toward peer
Range 1 to 255
Introduced 16.0.R1

monitor

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the monitor context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**

Description Administrative state of BMP monitoring

Default disable

Options enable, disable

Introduced 16.0.R1

all-stations *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**

Description Use all BMP monitoring stations

Default false

Introduced 16.0.R1

route-monitoring

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**

Description Enter the route-monitoring context

Introduced 16.0.R1

post-policy *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor route-monitoring**

Description Send post-policy monitoring messages

Default false

Introduced 16.0.R1

pre-policy *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor route-monitoring**
Description	Send pre-policy route monitoring messages
Default	false
Introduced	16.0.R1

station [station-name] *string*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor**
Description	Enter the station context
Max. Elements	8
Introduced	16.0.R1

[station-name] *string*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **monitor station** *string*
Description	BMP monitoring station
Reference	configure **bmp station** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

multihop *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	TTL value in the P header of packets sent to a peer
Range	1 to 255
Introduced	16.0.R1

next-hop-self *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Advertise routes to peer using next hop path attribute set to itself
Introduced	16.0.R1

passive *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Enable passive mode for BGP group
Introduced 16.0.R1

path-mtu-discovery *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Allow path MTU discovery for associated TCP connections
Introduced 16.0.R1

peer-as *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description AS number for the remote peer
Range 1 to 4294967295
Introduced 16.0.R1

peer-creation-type *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Peer creation type
Default static
Options static, dynamic
Introduced 16.0.R1

peer-ip-tracking *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Allow BGP peer tracking
Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Route preference for routes learned from all peers

Range 1 to 255

Introduced 16.0.R1

prefix-limit [family] *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the prefix-limit context

Introduced 16.0.R1

[family] *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
prefix-limit *keyword*

Description Address family to which the limit applies

Options ipv4, ipv6, mcast-ipv4, flow-ipv4, flow-ipv6, mcast-ipv6, label-ipv4

Introduced 16.0.R1

Notes This element is part of a list key

idle-timeout *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
prefix-limit *keyword*

Description Time that BGP peering remains idle before reconnecting to peers

Range 1 to 1024

Introduced 16.0.R1

log-only *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
prefix-limit *keyword*

Description Send warning message if specified threshold or limit is reached, without disabling BGP peer session

Default false

Introduced 16.0.R1

maximum *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Specifies the maximum number of routes that can be learned from this peer.
Range	1 to 4294967295
Introduced	16.0.R3

post-import *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Apply prefix limit only to number of routes accepted by import policies
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **prefix-limit** *keyword*
Description	Threshold value that triggers a warning message
Range	1 to 100
Default	90
Introduced	16.0.R1

remove-private

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description	Enter the remove-private context
Introduced	16.0.R1

limited *boolean*

Context	**configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **remove-private**
Description	Remove private AS numbers up to first public ASN encountered
Default	false
Introduced	16.0.R1

skip-peer-as *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **remove-private**

Description Keep a private ASN in the AS path if that ASN is the same as the BGP peer ASN

Default false

Introduced 16.0.R1

send-communities

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Enter the send-communities context

Introduced 16.0.R1

extended *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **send-communities**

Description Enables the sending of community attribute to the peer for external communities.

Introduced 16.0.R1

large *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **send-communities**

Description Enables the sending of community attribute to the peer for large communities.

Introduced 16.0.R1

standard *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*) **send-communities**

Description Enables the sending of community attribute to the peer for non-external communities.

Introduced 16.0.R1

split-horizon *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)

Description Prevent routes from being reflected back to peer that sends best route (true)

Introduced 16.0.R1

third-party-nexthop *boolean*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Send third party next hop to EBGP peers in same subnet as source peer
Introduced 16.0.R1

ttl-security *number*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Minimum TTL value for incoming BGP packet
Range 1 to 255
Introduced 16.0.R1

type *keyword*

Context **configure service vprn** *service-name* **bgp neighbor** (*ipv4-address* | *ipv6-address*)
Description Peer as internal (IBGP) or external (EBGP)
Options no-type, internal, external
Introduced 16.0.R1

next-hop-resolution

Context **configure service vprn** *service-name* **bgp**
Description Enter the next-hop-resolution context
Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **bgp next-hop-resolution**
Description Policy that controls which IP routes are eligible to resolve BGP next hop addresses
String Length 1 to 64
Introduced 16.0.R1

path-mtu-discovery *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Allow path MTU discovery for associated TCP connections
Default	false
Introduced	16.0.R1

peer-ip-tracking *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Allow BGP peer tracking
Default	false
Introduced	16.0.R1

peer-tracking-policy *string*

Context	**configure service vprn** *service-name* **bgp**
Description	Policy for BGP peer tracking on router instance
String Length	1 to 64
Introduced	16.0.R1

preference *number*

Context	**configure service vprn** *service-name* **bgp**
Description	Route preference for routes learned from all peers
Range	1 to 255
Default	170
Introduced	16.0.R1

rapid-withdrawal *boolean*

Context	**configure service vprn** *service-name* **bgp**
Description	Send BGP withdrawals immediately without MRAI timer expiring
Default	false
Introduced	16.0.R1

remove-private

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the remove-private context
Introduced	16.0.R1

limited *boolean*

Context	**configure service vprn** *service-name* **bgp remove-private**
Description	Remove private ASNs up to the first public ASN encountered
Default	false
Introduced	16.0.R1

skip-peer-as *boolean*

Context	**configure service vprn** *service-name* **bgp remove-private**
Description	Keep a private ASN in the AS path if that ASN is the same as the BGP peer ASN
Default	false
Introduced	16.0.R1

rib-management

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the rib-management context
Introduced	16.0.R1

ipv4

Context	**configure service vprn** *service-name* **bgp rib-management**
Description	Enter the ipv4 context
Introduced	16.0.R1

leak-import

Context	**configure service vprn** *service-name* **bgp rib-management ipv4**
Description	Enter the leak-import context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp rib-management ipv4 leak-import**
Description	Leak import policy name
String Length	1 to 255
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

route-table-import

Context	**configure service vprn** *service-name* **bgp rib-management ipv4**
Description	Enter the route-table-import context
Introduced	16.0.R1

policy-name *string*

Context	**configure service vprn** *service-name* **bgp rib-management ipv4 route-table-import**
Description	Policy that controls the importation of active routes from IP route table into one of BGP RIBs
String Length	1 to 64
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **bgp rib-management**
Description	Enter the ipv6 context
Introduced	16.0.R1

leak-import

Context	**configure service vprn** *service-name* **bgp rib-management ipv6**
Description	Enter the leak-import context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp rib-management ipv6 leak-import**
Description	Leak import policy name
String Length	1 to 255
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

route-table-import

Context	**configure service vprn** *service-name* **bgp rib-management ipv6**
Description	Enter the route-table-import context
Introduced	16.0.R1

policy-name *string*

Context	**configure service vprn** *service-name* **bgp rib-management ipv6 route-table-import**
Description	Policy that controls the importation of active routes from IP route table into one of BGP RIBs
String Length	1 to 64
Introduced	16.0.R1

label-ipv4

Context	**configure service vprn** *service-name* **bgp rib-management**
Description	Enter the label-ipv4 context
Introduced	16.0.R1

leak-import

Context	**configure service vprn** *service-name* **bgp rib-management label-ipv4**
Description	Enter the leak-import context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **bgp rib-management label-ipv4 leak-import**
Description	Leak import policy name
String Length	1 to 255
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

route-table-import

Context	**configure service vprn** *service-name* **bgp rib-management label-ipv4**
Description	Enter the route-table-import context
Introduced	16.0.R1

policy-name *string*

Context	**configure service vprn** *service-name* **bgp rib-management label-ipv4 route-table-import**
Description	Policy that controls the importation of active routes from IP route table into one of BGP RIBs
String Length	1 to 64
Introduced	16.0.R1

router-id *ipv4-address*

Context	**configure service vprn** *service-name* **bgp**
Description	Unique router ID for BGP instance in AS
Introduced	16.0.R1

send-communities

Context	**configure service vprn** *service-name* **bgp**
Description	Enter the send-communities context
Introduced	16.0.R1

extended *boolean*

Context **configure service vprn** *service-name* **bgp send-communities**

Description Enables the sending of community attribute to the peer for external communities.

Default true

Introduced 16.0.R1

large *boolean*

Context **configure service vprn** *service-name* **bgp send-communities**

Description Enables the sending of community attribute to the peer for large communities.

Default true

Introduced 16.0.R1

standard *boolean*

Context **configure service vprn** *service-name* **bgp send-communities**

Description Enables the sending of community attribute to the peer for non-external communities.

Default true

Introduced 16.0.R1

split-horizon *boolean*

Context **configure service vprn** *service-name* **bgp**

Description Prevent routes from being reflected back to peer that sends best route

Default false

Introduced 16.0.R1

third-party-nexthop *boolean*

Context **configure service vprn** *service-name* **bgp**

Description Send third-party next hop to EBGP peers in same subnet as source peer

Default false

Introduced 16.0.R1

bgp-shared-queue

Context **configure service vprn** *service-name*

Description Enter the bgp-shared-queue context

Introduced 16.0.R1

cir (*kilobytes* | *keyword*)

Context **configure service vprn** *service-name* **bgp-shared-queue**

Description Committed information rate for shared queue

Default 4000

Units kilobps

Introduced 16.0.R1

pir (*kilobytes* | *keyword*)

Context **configure service vprn** *service-name* **bgp-shared-queue**

Description Peak information rate for shared queue

Default 4000

Units kilobps

Introduced 16.0.R1

bgp-vpn-backup

Context **configure service vprn** *service-name*

Description Enter the bgp-vpn-backup context

Introduced 16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **bgp-vpn-backup**

Description Allows BGP-VPN routes to be used as backup paths for IPv4 prefixes.

Default false

Introduced 16.0.R1

ipv6 *boolean*

Context	**configure service vprn** *service-name* **bgp-vpn-backup**
Description	Allows BGP-VPN routes to be used as backup paths for IPv6 prefixes.
Default	false
Introduced	16.0.R1

carrier-carrier-vpn *boolean*

Context	**configure service vprn** *service-name*
Description	Allow VPRN service to support a Carrier Supporting Carrier model
Default	false
Introduced	16.0.R1

confederation

Context	**configure service vprn** *service-name*
Description	Enter the confederation context
Introduced	16.0.R1

confed-as-num *number*

Context	**configure service vprn** *service-name* **confederation**
Description	Confederation number within an autonomous system
Range	1 to 4294967295
Introduced	16.0.R1

members [as-number] *number*

Context	**configure service vprn** *service-name* **confederation**
Description	Enter the members context
Max. Elements	256
Introduced	16.0.R1

[as-number] *number*

Context	**configure service vprn** *service-name* **confederation members** *number*
Description	Tertiary index for tBgpConfederation4ByteTable. Each confederation member entry is differentiated by an autonomous system number.
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

customer *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name*
Description	Service customer ID
Reference	configure **service customer** *customer-name*
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service vprn** *service-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dhcp-server

Context	**configure service vprn** *service-name*
Description	Enter the dhcp-server context
Introduced	16.0.R1

dhcpv4 [name] *string*

Context	**configure service vprn** *service-name* **dhcp-server**
Description	Enter the dhcpv4 context
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	DHCP server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	Administrative state of the DHCP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

failover

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

force-renews *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	Send DHCP FORCERENEW messages to force renewal of lease state
Default	false
Introduced	16.0.R1

lease-hold

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string*

Description Enter the lease-hold context

Introduced 16.0.R1

additional-scenarios

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **lease-hold**

Description Enter the additional-scenarios context

Introduced 16.0.R1

internal-lease-ipsec *boolean*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **lease-hold additional-scenarios**

Description Enable lease hold timer for internal IPsec clients

Default false

Introduced 16.0.R1

solicited-release *boolean*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **lease-hold additional-scenarios**

Description Enable lease hold timer for solicited releases

Default false

Introduced 16.0.R1

time *number*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **lease-hold**

Description Lease hold time

Range 1 to 631152000

Units seconds

Introduced 16.0.R1

pool [pool-name] *string*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description Enter the pool context
Introduced 16.0.R1

[pool-name] *string*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description DHCP server pool name
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a list key

description *string*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

failover

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description Enter the failover context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description Administrative state of the failover mechanism
Default disable
Options enable, disable
Introduced 16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

max-lease-time *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Maximum lease time
Range	10 to 315446399
Default	864000
Units	seconds
Introduced	16.0.R1

min-lease-time *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Minimum lease time
Range	10 to 315446399
Default	600
Units	seconds
Introduced	16.0.R1

minimum-free

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Enter the minimum-free context
Introduced	16.0.R1

absolute *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **minimum-free**
Description	Absolute minimum number for free addresses
Range	0 to 255
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

event-when-depleted *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **minimum-free**
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

percent *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **minimum-free**
Description	Minimum percentage of free addresses
Range	0 to 100
Introduced	16.0.R1
Notes	This element is part of a choice

nak-non-matching-subnet *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Send a DHCP NAK if a DHCP request IP address does not match any range in this pool
Default	false
Introduced	16.0.R1

offer-time *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Time interval when a DHCP offer remains valid
Range	10 to 600
Default	60
Units	seconds
Introduced	16.0.R1

options

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

subnet [ipv4-prefix] *ipv4-unicast-prefix*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string*

Description Enter the subnet context

Introduced 16.0.R1

[ipv4-prefix] *ipv4-unicast-prefix*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*

Description IPv4 prefix

Introduced 16.0.R1

Notes This element is part of a list key

address-range [start] *ipv4-unicast-address* **end** *ipv4-unicast-address*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*

Description Enter the address-range context

Introduced 16.0.R1

[start] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*

Description Start address of this range

Introduced 16.0.R1

Notes This element is part of a list key

end *ipv4-unicast-address*

Context **configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*

Description End address of this range

Introduced 16.0.R1

Notes This element is part of a list key

failover-control-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Failover control type for this range
Default	local
Options	local, remote, access-driven
Introduced	16.0.R1

drain *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Prevent new leases from setting up in this prefix
Default	false
Introduced	16.0.R1

exclude-addresses [start] *ipv4-unicast-address* **end** *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the exclude-addresses context
Introduced	16.0.R1

[start] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **exclude-addresses** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Start address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **exclude-addresses** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	End address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

maximum-declined *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Maximum number of declined addresses
Default	64
Introduced	16.0.R1

minimum-free

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the minimum-free context
Introduced	16.0.R1

absolute *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **minimum-free**
Description	Absolute minimum number for free addresses
Range	0 to 255
Default	1
Introduced	16.0.R1
Notes	This element is part of a choice

event-when-depleted *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **minimum-free**
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

percent *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **minimum-free**
Description	Minimum percentage of free addresses
Range	0 to 100
Introduced	16.0.R1
Notes	This element is part of a choice

options

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool** *string* **subnet** *ipv4-unicast-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

pool-selection

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	Enter the pool-selection context
Introduced	16.0.R1

use-gi-address

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool-selection**
Description	Enter the use-gi-address context
Introduced	16.0.R1

scope *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool-selection use-gi-address**
Description	Match the GI address to a specific subnet or pool.
Default	subnet
Options	subnet, pool
Introduced	16.0.R4

use-pool-from-client

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool-selection**
Description	Enter the use-pool-from-client context
Introduced	16.0.R1

delimiter *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string* **pool-selection use-pool-from-client**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1

user-db *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	Local user database for authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

user-identification *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv4** *string*
Description	User identification for DHCPv6
Default	mac-circuit-id
Options	mac-circuit-id, duid, interface-id, interface-id-link-local, client-id, mac, circuit-id, remote-id
Introduced	16.0.R1

dhcpv6 [name] *string*

Context	**configure service vprn** *service-name* **dhcp-server**
Description	Enter the dhcpv6 context
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	DHCP server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Administrative state of the DHCP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-provisioned *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Auto-provision the pools of this server
Default	false
Introduced	16.0.R1

defaults

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string*

Description Enter the defaults context

Introduced 16.0.R4

options

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults**

Description Enter the options context

Introduced 16.0.R4

option [number] (*number* | *keyword*)

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options**

Description Enter the option context

Introduced 16.0.R4

[number] (*number* | *keyword*)

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)

Description DHCPv6 option for sending identification strings to DHCP client

Range 1 to 65535

Options dns-server, domain-name

Introduced 16.0.R4

Notes This element is part of a list key

ascii-string *string*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)

Description ASCII string for DHCP option

String Length 1 to 127

Introduced 16.0.R4

Notes This element is part of a choice

domain-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R4
Notes	This element is part of a choice

duration *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R4
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

preferred-lifetime *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults**
Description	Time for the prefix to remain preferred.
Range	300 to 315446399
Default	3600
Units	seconds
Introduced	16.0.R4

rebind-time *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults**
Description	Rebind time for the prefix.
Range	0 to 1209600
Default	2880
Units	seconds
Introduced	16.0.R4

renew-time *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults**
Description	Renew time for the prefix.
Range	0 to 604800
Default	1800
Units	seconds
Introduced	16.0.R4

valid-lifetime *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **defaults**
Description	Time for the prefix to remain valid.
Range	300 to 315446399
Default	86400
Units	seconds
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

failover

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

ignore-rapid-commit *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Rapid Commit Option to ignore
Default	false
Introduced	16.0.R1

interface-id-mapping *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Map different hosts using the same interface ID to the same prefix
Default	false
Introduced	16.0.R1

lease-hold

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Enter the lease-hold context
Introduced	16.0.R1

additional-scenarios

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **lease-hold**
Description	Enter the additional-scenarios context
Introduced	16.0.R1

internal-lease-ipsec *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **lease-hold additional-scenarios**
Description	Enable lease hold timer for internal IPsec clients
Default	false
Introduced	16.0.R1

solicited-release *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **lease-hold additional-scenarios**
Description	Enable lease hold timer for solicited releases
Default	false
Introduced	16.0.R1

time *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **lease-hold**
Description	Lease hold time
Range	1 to 631152000
Units	seconds
Introduced	16.0.R1

lease-query *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Allow lease query messages
Default	false
Introduced	16.0.R1

pool [pool-name] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Enter the pool context
Introduced	16.0.R1

[pool-name] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*
Description	DHCP server pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

delegated-prefix

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the delegated-prefix context
Introduced	16.0.R1

length *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **delegated-prefix**
Description	Prefix length for this pool if unspecified by client
Range	48 to 127
Default	64
Introduced	16.0.R1

maximum *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **delegated-prefix**
Description	Maximum delegated prefix length for this pool
Range	48 to 127
Default	64
Introduced	16.0.R1

minimum *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **delegated-prefix**
Description	Minimum delegated prefix length for this pool
Range	48 to 127
Default	48
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

exclude-prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the exclude-prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **exclude-prefix** *ipv6-prefix*
Description	IPv6 prefix
Introduced	16.0.R1
Notes	This element is part of a list key

failover

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the failover context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Administrative state of the failover mechanism
Default	disable
Options	enable, disable
Introduced	16.0.R1

ignore-mclt-on-takeover *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Ignore maximum client lead delay while taking over the pool address space from partner
Default	false
Introduced	16.0.R1

maximum-client-lead-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Maximum client lease time (MCLT) that a DHCP server can extend
Range	600 to 86399
Default	600
Units	seconds
Introduced	16.0.R1

partner-down-delay *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Partner down delay that prevents the IP lease duplication
Range	0 to 86399
Default	86399
Units	seconds
Introduced	16.0.R1

peer [address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Enter the peer context
Max. Elements	1
Introduced	16.0.R1

[address] *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover peer** *string*
Description	Failover peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is part of a list key

sync-tag *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover peer** *string*
Description	Failover peer Sync tag
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

startup-wait-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **failover**
Description	Startup wait time
Range	60 to 3600
Default	120
Units	seconds
Introduced	16.0.R1

options

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

domain-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)

Description Empty DHCP option.

Introduced 16.0.R1

Notes This element is part of a choice

hex-string *string*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)

Description DHCP option as hexadecimal string

String Length 1 to 256

Introduced 16.0.R1

Notes This element is part of a choice

ipv6-address *ipv6-address*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **options option** (*number* | *keyword*)

Description DHCP option as a list of IPv6 addresses

Max. Elements 4

Introduced 16.0.R1

Notes This element is part of a choice

prefix [ipv6-prefix] *ipv6-prefix*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*

Description Enter the prefix context

Introduced 16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*

Description IPv6 prefix

Introduced 16.0.R1

Notes This element is part of a list key

drain *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Prevent new leases from setting up in this prefix
Default	false
Introduced	16.0.R1

failover-control-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Failover control type for this range
Default	local
Options	local, remote, access-driven
Introduced	16.0.R1

options

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Enter the options context
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

domain-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **options option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R1
Notes	This element is part of a choice

preferred-lifetime *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Time for the prefix to remain preferred.
Range	300 to 315446399
Default	3600
Units	seconds
Introduced	16.0.R4

prefix-length-threshold [prefix-length] *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Enter the prefix-length-threshold context
Max. Elements	8
Introduced	16.0.R1

[prefix-length] *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Delegated prefix length
Range	1 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

absolute *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Absolute minimum number for free addresses
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a choice

event-when-depleted *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

percent *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-length-threshold** *number*
Description	Minimum percentage of free addresses
Range	1 to 100
Introduced	16.0.R1
Notes	This element is part of a choice

prefix-type

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*
Description	Enter the prefix-type context
Introduced	16.0.R1

pd *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-type**
Description	Aggregate prefix to be used by IPv6 ESM hosts for DHCPv6 prefix delegation
Default	true
Introduced	16.0.R1

wan-host *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix* **prefix-type**
Description	Aggregate prefix to be used by IPv6 ESM hosts, or by routing gateway WAN interface
Default	true
Introduced	16.0.R1

rebind-time *number*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*

Description Rebind time for the prefix.

Range 0 to 1209600

Default 2880

Units seconds

Introduced 16.0.R4

renew-time *number*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*

Description Renew time for the prefix.

Range 0 to 604800

Default 1800

Units seconds

Introduced 16.0.R4

valid-lifetime *number*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix** *ipv6-prefix*

Description Time for the prefix to remain valid.

Range 300 to 315446399

Default 86400

Units seconds

Introduced 16.0.R4

prefix-length-threshold [prefix-length] *number*

Context **configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string*

Description Enter the prefix-length-threshold context

Max. Elements 8

Introduced 16.0.R1

[prefix-length] *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix-length-threshold** *number*
Description	Delegated prefix length
Range	1 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

event-when-depleted *boolean*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix-length-threshold** *number*
Description	Generate a notification when this pool is depleted
Default	false
Introduced	16.0.R1

minimum-free-percent *number*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool** *string* **prefix-length-threshold** *number*
Description	Percentage of free prefixes for this prefix length
Range	0 to 100
Default	0
Introduced	16.0.R1

pool-selection

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Enter the pool-selection context
Introduced	16.0.R1

use-link-address

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool-selection**
Description	Enter the use-link-address context
Introduced	16.0.R1

scope *keyword*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool-selection use-link-address**
Description	Match a specific pool or prefix using the DHCPv6 relay link address.
Default	subnet
Options	subnet, pool
Introduced	16.0.R4

use-pool-from-client

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool-selection**
Description	Enter the use-pool-from-client context
Introduced	16.0.R1

delimiter *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **pool-selection use-pool-from-client**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1

server-id

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	Enter the server-id context
Introduced	16.0.R1

duid-enterprise

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **server-id**
Description	Enter the **duid-enterprise** context
Introduced	16.0.R1

ascii-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **server-id duid-enterprise**
Description	DUID enterprise value as an ASCII string
String Length	1 to 58
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **server-id duid-enterprise**
Description	DUID enterprise value as a hexadecimal string
String Length	1 to 118
Introduced	16.0.R1
Notes	This element is part of a choice

duid-link-local

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string* **server-id**
Description	DUID (DHCP Unique Identifier) type code link local
Introduced	16.0.R1
Notes	This element is part of a choice

user-identification *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **dhcp-server dhcpv6** *string*
Description	User identification for DHCPv6
Default	duid
Options	mac-circuit-id, duid, interface-id, interface-id-link-local, client-id, mac, circuit-id, remote-id
Introduced	16.0.R1

dns

Context	**configure service vprn** *service-name*
Description	Enter the dns context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **dns**
Description	Administrative state of DNS
Default	disable
Options	enable, disable
Introduced	16.0.R1

ipv4-source-address (*keyword* | *string*)

Context	**configure service vprn** *service-name* **dns**
Description	Source address to contact an IPv4 DNS server
Default	use-interface-ip
Options	use-interface-ip
Introduced	16.0.R1

ipv6-source-address (*keyword* | *string*)

Context	**configure service vprn** *service-name* **dns**
Description	Source address to contact an IPv6 DNS server
Default	use-interface-ip
Options	use-interface-ip
Introduced	16.0.R1

server (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **dns**
Description	List of DNS servers used for address resolution.
Max. Elements	3
Introduced	16.0.R1
Notes	This element is ordered by user

ecmp *number*

Context **configure service vprn** *service-name*

Description Maximum number of equal cost routes allowed on this routing table instance

Range 1 to 64

Default 1

Introduced 16.0.R1

entropy-label *boolean*

Context **configure service vprn** *service-name*

Description Use entropy label

Default false

Introduced 16.0.R1

export-inactive-bgp *boolean*

Context **configure service vprn** *service-name*

Description Export best BGP route as a VPN-IP route even if inactive due to a preferred route from another PE

Default false

Introduced 16.0.R1

fib-priority *keyword*

Context **configure service vprn** *service-name*

Description FIB (Forwarding Information Base) priority

Default standard

Options standard, high

Introduced 16.0.R1

firewall

Context **configure service vprn** *service-name*

Description Enter the firewall context

Introduced 16.0.R1

domain [name] *string*

Context	**configure service vprn** *service-name* **firewall**
Description	Enter the domain context
Max. Elements	1024
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **firewall domain** *string*
Description	Firewall domain name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **firewall domain** *string*
Description	Administrative state of the firewall domain
Default	disable
Options	enable, disable
Introduced	16.0.R1

dhcpv6-server

Context	**configure service vprn** *service-name* **firewall domain** *string*
Description	Enter the dhcpv6-server context
Introduced	16.0.R1

name *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **firewall domain** *string* **dhcpv6-server**
Description	DHCPv6 server name
String Length	1 to 32
Introduced	16.0.R1

router-instance *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **firewall domain** *string* **dhcpv6-server**
Description	Router name
Introduced	16.0.R1

nat-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **firewall domain** *string*
Description	NAT group
Reference	configure **isa nat-group** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

prefix [ip-prefix] *ipv6-unicast-prefix*

Context	**configure service vprn** *service-name* **firewall domain** *string*
Description	Enter the prefix context
Max. Elements	4096
Introduced	16.0.R1

[ip-prefix] *ipv6-unicast-prefix*

Context	**configure service vprn** *service-name* **firewall domain** *string* **prefix** *ipv6-unicast-prefix*
Description	Prefix attribute and prefix length
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure service vprn** *service-name* **firewall domain** *string* **prefix** *ipv6-unicast-prefix*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **firewall domain** *string*
Description	WLAN GW group used for NAT
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R4
Notes	This element is part of a choice

flowspec

Context	**configure service vprn** *service-name*
Description	Enter the flowspec context
Introduced	16.0.R1

ip-filter-max-size *number*

Context	**configure service vprn** *service-name* **flowspec**
Description	Maximum number of entries in IP filter for flowspec rules
Range	0 to 262143
Default	512
Introduced	16.0.R1

ipv6-filter-max-size *number*

Context	**configure service vprn** *service-name* **flowspec**
Description	Maximum number of entries in IPv6 filter for flowspec rules
Range	0 to 262143
Default	512
Introduced	16.0.R1

grt-leaking

Context	**configure service vprn** *service-name*
Description	Enter the grt-leaking context
Introduced	16.0.R1

allow-local-management *boolean*

Context	**configure service vprn** *service-name* **grt-leaking**
Description	Enable/disable management traffic from GRT-leaking enabled VPRN instances to reach local interfaces in the base routing instance.
Default	false
Introduced	16.0.R1

export-grt

Context	**configure service vprn** *service-name* **grt-leaking**
Description	Enter the export-grt context
Introduced	16.0.R1

policy-name *string*

Context	**configure service vprn** *service-name* **grt-leaking export-grt**
Description	Attribute policy-name for export-grt.
String Length	1 to 255
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

export-limit *number*

Context **configure service vprn** *service-name* **grt-leaking**

Description Maximum number of routes that can be exported.

Range 0 to 1000

Default 5

Introduced 16.0.R1

export-v6-limit *number*

Context **configure service vprn** *service-name* **grt-leaking**

Description Maximum number of IPv6 routes that can be exported.

Range 0 to 1000

Default 5

Introduced 16.0.R1

grt-lookup *boolean*

Context **configure service vprn** *service-name* **grt-leaking**

Description Enable/disable global route table lookup.

Default false

Introduced 16.0.R1

import-grt

Context **configure service vprn** *service-name* **grt-leaking**

Description Enter the import-grt context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **grt-leaking import-grt**

Description Attribute policy-name for import-grt.

String Length 1 to 255

Max. Elements 5

Introduced 16.0.R1

Notes This element is ordered by user

gsmp

Context	**configure service vprn** *service-name*
Description	Enter the gsmp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **gsmp**
Description	Administrative state of GSMP
Default	disable
Options	enable, disable
Introduced	16.0.R1

group [name] *string*

Context	**configure service vprn** *service-name* **gsmp**
Description	Enter the group context
Max. Elements	1024
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **gsmp group** *string*
Description	GSMP neighbor group name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **gsmp group** *string*
Description	Administrative state of the GSMP group
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp

Context **configure service vprn** *service-name* **gsmp group** *string*

Description Enter the ancp context

Introduced 16.0.R1

dynamic-topology-discovery *boolean*

Context **configure service vprn** *service-name* **gsmp group** *string* **ancp**

Description Enable the ANCP dynamic topology discovery capability

Default true

Introduced 16.0.R1

oam *boolean*

Context **configure service vprn** *service-name* **gsmp group** *string* **ancp**

Description Enable GSMP ANCP OAM capability at startup of GSMP connection

Default false

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **gsmp group** *string*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

hold-multiplier *number*

Context **configure service vprn** *service-name* **gsmp group** *string*

Description Hold-multiplier for the GSMP connections in this group

Range 1 to 100

Default 3

Introduced 16.0.R1

idle-filter *boolean*

Context	**configure service vprn** *service-name* **gsmp group** *string*
Description	Filter ANCP messages from IDLE DSL lines
Default	false
Introduced	16.0.R1

keepalive *number*

Context	**configure service vprn** *service-name* **gsmp group** *string*
Description	Keepalive value for the GSMP connections in this group
Range	1 to 25
Default	10
Units	seconds
Introduced	16.0.R1

neighbor [remote-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **gsmp group** *string*
Description	Enter the neighbor context
Introduced	16.0.R1

[remote-address] *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	GSMP neighbor remote IP address
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Administrative state of the GSMP neighbor
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

local-address *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Restrict connections to this local address only within the service running ANCP
Introduced	16.0.R1

priority-marking

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address*
Description	Enter the priority-marking context
Introduced	16.0.R1

dscp *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address* **priority-marking**
Description	DSCP that is used while remarking the in profile packets
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1
Notes	This element is part of a choice

prec *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **gsmp group** *string* **neighbor** *ipv4-unicast-address* **priority-marking**
Description	Precedence priority marking
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a choice

persistency *boolean*

Context	**configure service vprn** *service-name* **gsmp group** *string*
Description	Store DSL line information when the GSMP connection terminates
Default	false
Introduced	16.0.R1

gtp

Context	**configure service vprn** *service-name*
Description	Enter the gtp context
Introduced	16.0.R1

s11

Context **configure service vprn** *service-name* **gtp**

Description Enter the s11 context

Introduced 16.0.R1

interface [interface-name] *string*

Context **configure service vprn** *service-name* **gtp s11**

Description Enter the interface context

Introduced 16.0.R1

[interface-name] *string*

Context **configure service vprn** *service-name* **gtp s11 interface** *string*

Description Interface where s11 is enabled.

Reference configure **service vprn** *service-name* **interface** *interface-name*

Introduced 16.0.R1

Notes This element is part of a list key

apn-policy *string*

Context **configure service vprn** *service-name* **gtp s11 interface** *string*

Description The APN policy for this interface.

Reference configure **subscriber-mgmt gtp apn-policy** *string*

Introduced 16.0.R1

peer-profile-map

Context **configure service vprn** *service-name* **gtp s11**

Description Enter the peer-profile-map context

Introduced 16.0.R1

prefix [peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context **configure service vprn** *service-name* **gtp s11 peer-profile-map**

Description Enter the prefix context

Introduced 16.0.R1

[peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **gtp s11 peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Attribute ip-prefix/ip-prefix-length for address.
Introduced	16.0.R1
Notes	This element is part of a list key

peer-profile *string*

Context	**configure service vprn** *service-name* **gtp s11 peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Peer profile used for peers in this prefix
Reference	configure **subscriber-mgmt gtp peer-profile** *string*
Introduced	16.0.R1
Notes	This element is mandatory

uplink

Context	**configure service vprn** *service-name* **gtp**
Description	Enter the uplink context
Introduced	16.0.R1

apn *string*

Context	**configure service vprn** *service-name* **gtp uplink**
Description	Network Identifier part of APN
String Length	1 to 80
Introduced	16.0.R1

pdn-type *keyword*

Context	**configure service vprn** *service-name* **gtp uplink**
Description	Default 3GPP PDN in GTP
Default	ipv4
Options	ipv4, ipv6, ipv4v6
Introduced	16.0.R1

peer-profile-map

Context	**configure service vprn** *service-name* **gtp uplink**
Description	Enter the peer-profile-map context
Introduced	16.0.R1

prefix [peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **gtp uplink peer-profile-map**
Description	Enter the prefix context
Introduced	16.0.R1

[peer-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **gtp uplink peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Attribute ip-prefix/ip-prefix-length for address.
Introduced	16.0.R1
Notes	This element is part of a list key

peer-profile *string*

Context	**configure service vprn** *service-name* **gtp uplink peer-profile-map prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Peer profile name
Reference	configure **subscriber-mgmt gtp peer-profile** *string*
Introduced	16.0.R1
Notes	This element is mandatory

hash-label *boolean*

Context	**configure service vprn** *service-name*
Description	Include hash label
Default	false
Introduced	16.0.R1

igmp

Context	**configure service vprn** *service-name*
Description	Enter the igmp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **igmp**
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

forwarding-group-interface forwarding-service *service-name* group-interface-name *interface-name*

Context	**configure service vprn** *service-name* **igmp**
Description	Enter the forwarding-group-interface context
Introduced	16.0.R1

forwarding-service *service-name*

Context	**configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Forwarding service for a subscriber interface in a retailer context
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

group-interface-name *interface-name*

Context	**configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Maximum number of sources that are allowed per group

Range 1 to 1000

Introduced 16.0.R1

mcac

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Time to wait for a response to the host-query messages

Range 1 to 1023

Introduced 16.0.R1

query-source-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Source address for IGMP queries

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Enable IGMP router alert check option

Default true

Introduced 16.0.R1

sub-hosts-only *boolean*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Allow IGMP traffic from known hosts only

Default true

Introduced 16.0.R1

subnet-check *boolean*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Enable subnet checking

Default true

Introduced 16.0.R1

version *keyword*

Context **configure service vprn** *service-name* **igmp forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description IGMP protocol version

Default 3

Options 1, 2, 3

Introduced 16.0.R1

group-if-query-source-address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp**
Description	Source address in queries for group interfaces when not configured at group interface level
Introduced	16.0.R1

group-interface [group-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **igmp**
Description	Enter the group-interface context
Introduced	16.0.R1

[group-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Enter the mcac context
Introduced	16.0.R1

bandwidth

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name* **mcac**
Description	Enter the bandwidth context
Introduced	16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **igmp group-interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **igmp group-interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **igmp group-interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **igmp group-interface** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context **configure service vprn** *service-name* **igmp group-interface** *interface-name*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Time between group-specific query messages
Range	1 to 1023
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

query-source-address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Source address for IGMP queries
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

sub-hosts-only *boolean*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Allow IGMP traffic from known hosts only
Default	true
Introduced	16.0.R1

subnet-check *boolean*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	Enable subnet checking
Default	true
Introduced	16.0.R1

version *keyword*

Context	**configure service vprn** *service-name* **igmp group-interface** *interface-name*
Description	IGMP protocol version
Default	3
Options	1, 2, 3
Introduced	16.0.R1

interface [ip-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **igmp**
Description	Enter the interface context
Introduced	16.0.R1

[ip-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Administrative state of IGMP
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Enter the mcac context
Introduced	16.0.R1

bandwidth

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

level [level-id] *number*

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints**

Description Enter the level context

Introduced 16.0.R1

[level-id] *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth level ID for a multicast CAC constraint
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

bandwidth *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth available for this level
Range	0 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

number-down [number-lag-port-down] *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints**
Description	Enter the number-down context
Introduced	16.0.R1

[number-lag-port-down] *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Number of LAG ports down
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **mcac**
Description	Multicast CAC policy name
Reference	configure **mcac policy** *string*
Introduced	16.0.R1

query-interval *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Time between two consecutive host-query messages
Range	2 to 1024
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Time between group-specific query messages
Range	1 to 1023
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

redundant-mcast *boolean*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Exchange the interface state information with MCS
Default	false
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

ssm-translate

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv4-multicast-address* **end** *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

static

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv4-multicast-address*

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **static**

Description Enter the group context

Introduced 16.0.R1

[group-address] *ipv4-multicast-address*

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **static group** *ipv4-multicast-address*

Description Group address of multicast channel

Introduced 16.0.R1

Notes This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **static group** *ipv4-multicast-address*

Description Enter the **source** context

Introduced 16.0.R3

[source-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*

Description Source address of multicast channel.

Introduced 16.0.R3

Notes This element is part of a choice

This element is part of a list key

starg

Context **configure service vprn** *service-name* **igmp interface** *interface-name* **static group** *ipv4-multicast-address*

Description any source address (*,G)

Introduced 16.0.R3

Notes This element is part of a choice

group-range start *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	Start of group range of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	End of group range for multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

step *ipv4-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	Step interval for the group-range addresses
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vprn** *service-name* **igmp interface** *interface-name* **static group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **step** *ipv4-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

subnet-check *boolean*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	Enable subnet checking
Default	true
Introduced	16.0.R1

version *keyword*

Context	**configure service vprn** *service-name* **igmp interface** *interface-name*
Description	IGMP protocol version
Default	3
Options	1, 2, 3
Introduced	16.0.R1

query-interval *number*

Context	**configure service vprn** *service-name* **igmp**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vprn** *service-name* **igmp**
Description	Time between group-specific query messages
Range	1 to 1023
Default	1
Units	seconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vprn** *service-name* **igmp**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vprn** *service-name* **igmp**
Description	Number of retries after message loss
Range	2 to 10
Default	2
Introduced	16.0.R1

ssm-translate

Context **configure service vprn** *service-name* **igmp**

Description Enter the ssm-translate context

Introduced 16.0.R1

group-range **start** *ipv4-multicast-address* **end** *ipv4-multicast-address*

Context **configure service vprn** *service-name* **igmp ssm-translate**

Description Enter the group-range context

Introduced 16.0.R1

start *ipv4-multicast-address*

Context **configure service vprn** *service-name* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*

Description Start of group range

Introduced 16.0.R1

Notes This element is part of a list key

end *ipv4-multicast-address*

Context **configure service vprn** *service-name* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*

Description End of group range

Introduced 16.0.R1

Notes This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address*

Description Enter the source context

Min. Elements 1

Introduced 16.0.R3

[source-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **igmp ssm-translate group-range start** *ipv4-multicast-address* **end** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

igmp-host-tracking

Context	**configure service vprn** *service-name*
Description	Enter the igmp-host-tracking context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **igmp-host-tracking**
Description	Administrative state of IGMP host tracking
Default	disable
Options	enable, disable
Introduced	16.0.R1

expiry-time *number*

Context	**configure service vprn** *service-name* **igmp-host-tracking**
Description	Time during which the system continues to track inactive hosts
Range	1 to 65535
Default	260
Units	seconds
Introduced	16.0.R1

ignore-nh-metric *boolean*

Context	**configure service vprn** *service-name*
Description	Ignore next hop metric
Default	false
Introduced	16.0.R1

interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Name of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

cflowd-parameters

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the cflowd-parameters context
Introduced	16.0.R1

sampling [sampling-type] *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **cflowd-parameters**
Description	Enter the sampling context
Introduced	16.0.R1

[sampling-type] *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	Cflowd sampling type for virtual router interface
Options	unicast, multicast
Introduced	16.0.R5
Notes	This element is part of a list key

direction *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The direction of the Cflowd analysis that is applied to the given interface.
Default	ingress-only
Options	ingress-only, egress-only, both
Introduced	16.0.R4

type *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The type of Cflowd analysis that is applied to the given interface.
Options	acl, interface
Introduced	16.0.R4
Notes	This element is mandatory

cpu-protection *string*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	CPU protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context **configure service vprn** *service-name* **interface** *interface-name*

Description Text description

String Length 1 to 160

Introduced 16.0.R1

hold-time

Context **configure service vprn** *service-name* **interface** *interface-name*

Description Enter the hold-time context

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time**

Description Enter the ipv4 context

Introduced 16.0.R1

down

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv4**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv4 down**

Description Apply down delay only when interface is configured or after reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv4 down**
Description Down hold time for the IP interface
Range 1 to 1200
Units seconds
Introduced 16.0.R1

up

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv4**
Description Enter the up context
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv4 up**
Description Up hold time for the IP interface
Range 1 to 1200
Units seconds
Introduced 16.0.R1

ipv6

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time**
Description Enter the ipv6 context
Introduced 16.0.R1

down

Context **configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv6**
Description Enter the down context
Introduced 16.0.R1

init-only *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv6 down**
Description	Apply hold time only when IP interface is first configured or after system reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv6 down**
Description	Down hold time for the IPv6 interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv6**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **hold-time ipv6 up**
Description	Up hold time for the IPv6 interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

if-attribute

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the if-attribute context
Introduced	16.0.R1

admin-group *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **if-attribute**
Description	Name of the Admin group membership of the interface
Reference	configure **routing-options if-attribute admin-group** *string*
Max. Elements	32
Introduced	16.0.R1

srlg-group [name] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **if-attribute**
Description	Enter the srlg-group context
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **if-attribute srlg-group** *string*
Description	Shared Risk Link Group (SRLG) name.
Reference	configure **routing-options if-attribute srlg-group** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

ingress-stats *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Collect ingress statistics
Default	false
Introduced	16.0.R1

ip-mtu *number*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Interface IP MTU
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

ipv4

Context **configure service vprn** *service-name* **interface** *interface-name*

Description Enter the ipv4 context

Introduced 16.0.R1

addresses

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**

Description Enter the addresses context

Introduced 16.0.R1

address [ipv4-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 addresses**

Description Enter the address context

Introduced 16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 addresses address** *ipv4-unicast-address*

Description IPv4 address for a router interface

Introduced 16.0.R1

Notes This element is part of a list key

prefix-length *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 addresses address** *ipv4-unicast-address*

Description IPv4 address prefix length

Range 0 to 32

Introduced 16.0.R1

Notes This element is mandatory

allow-directed-broadcasts *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	Forward directed broadcasts
Default	false
Introduced	16.0.R1

bfd

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD transmit interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 bfd**
Description	BFD session termination
Default	auto
Options	cpm-np, auto
Introduced	16.0.R1

dhcp

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the dhcp context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Administratively enable/disable DHCP.

Default disable

Options enable, disable

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Add/remove a text description for DHCP.

String Length 1 to 80

Introduced 16.0.R4

gi-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Configure the gateway interface address for the DHCP relay.

Introduced 16.0.R4

lease-populate

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

max-leases *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp lease-populate**

Description The maximum number of DHCPv4 leases.

Range 0 to 511999

Default 0

Introduced 16.0.R4

option-82

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the option-82 context

Introduced 16.0.R4

action *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**

Description What to do with DHCP option 82.

Default keep

Options replace, drop, keep

Introduced 16.0.R4

circuit-id

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the circuit-id context

Introduced 16.0.R4

ascii-tuple

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

ifindex

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ifindex in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Do not include the circuit-id.

Introduced 16.0.R4

Notes This element is part of a choice

sap-id

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use SAP ID in the option.

Introduced 16.0.R4

Notes This element is part of a choice

vlan-ascii-tuple

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use vlan-ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

remote-id

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the remote-id context

Introduced 16.0.R4

ascii-string *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Use user-defined ASCII string in the option.

String Length 1 to 32

Introduced 16.0.R4

Notes This element is part of a choice

mac

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Use MAC address in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Do not include the remote-id.

Introduced 16.0.R4

Notes This element is part of a choice

vendor-specific-option

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the vendor-specific-option context

Introduced 16.0.R4

client-mac-address *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

pool-name *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the pool name in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the proxy-server context

Introduced 16.0.R4

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server**

Description Administratively enable/disable DHCP proxy.

Default disable

Options enable, disable

Introduced 16.0.R1

emulated-server *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server**

Description The address used as source and siaddr when emulating a DHCP server.

Introduced 16.0.R1

lease-time

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server**

Description Enter the lease-time context

Introduced 16.0.R1

radius-override *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server lease-time**

Description Use lease time information provided by RADIUS server

Default false

Introduced 16.0.R1

value *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp proxy-server lease-time**

Description DHCP lease time

Range 300 to 315446399

Units seconds

Introduced 16.0.R1

python-policy *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Python policy.

Reference configure **python python-policy** *string*

Introduced 16.0.R4

relay-plain-bootp *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enable/disable relaying of plain BOOTP packets.

Default false

Introduced 16.0.R4

relay-proxy

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**

Description Enter the relay-proxy context

Introduced 16.0.R1

release-update-src-ip *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp relay-proxy**

Description Specify whether or not to relay release messages.

Default false

Introduced 16.0.R4

siaddr-override *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp relay-proxy**

Description Specify the IP address to use.

Introduced 16.0.R4

server *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

trusted *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable relaying of untrusted packets.
Default	false
Introduced	16.0.R4

use-arp *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable the use of ARP to determine the destination Hw address.
Default	false
Introduced	16.0.R4

icmp

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the icmp context
Introduced	16.0.R1

mask-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Allow responses to ICMP mask requests
Default	true
Introduced	16.0.R1

param-problem

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Enter the param-problem context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp param-problem**
Description	Administrative state of sending parameter-problem messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp param-problem**
Description	Number of parameter-problem ICMP messages to send in specified time interval
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp param-problem**
Description	Time used to limit number of parameter-problem ICMP messages issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

redirects

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp**

Description Enter the redirects context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp redirects**

Description Administrative state of sending ICMP redirects

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp redirects**

Description Maximum number of ICMP redirect messages to send

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp redirects**

Description Time to limit the number of ICMP redirect messages that can be issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

ttl-expired

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp**

Description Enter the ttl-expired context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Administrative state of sending TTL expired messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Maximum number of TTL expired messages to send
Range	10 to 2000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Time to limit the number of ICMP TTL expired messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

unreachables

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp**
Description	Enter the unreachables context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp unreachables**
Description	Administrative state of sending unreachable messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp unreachables**
Description Maximum number of unreachable messages to send
Range 10 to 2000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 icmp unreachables**
Description Time to limit the number of unreachable messages that can be issued
Range 1 to 60
Default 10
Units seconds
Introduced 16.0.R1

ip-helper-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description Gateway address
Introduced 16.0.R1

local-dhcp-server *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description DHCP server for the interface
Reference configure **service vprn** *service-name* **dhcp-server dhcpv4** *string*
Introduced 16.0.R1

neighbor-discovery

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description Enter the neighbor-discovery context
Introduced 16.0.R1

learn-unsolicited *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow ARP application to learn new entries based on any received ARP message
Default	false
Introduced	16.0.R1

limit

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Log warning messages at threshold or when limit is exceeded, however entries are learned above limit
Default	false
Introduced	16.0.R1

max-entries *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Maximum number of entries that can be learned on an IP interface
Range	0 to 524288
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery limit**
Description	Threshold value that triggers a warning message to be sent
Range	1 to 100
Default	90
Units	percent
Introduced	16.0.R1

local-proxy-arp *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable local proxy ARP on interface
Default	false
Introduced	16.0.R1

populate *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow static and dynamic hosts to be populated in system ARP cache
Default	false
Introduced	16.0.R1

populate-host *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow addition or deletion of host routes in route table derived from ARP entries in ARP cache
Default	false
Introduced	16.0.R1

proactive-refresh *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Send a single refresh message with no retries 30 seconds prior to entry timeout
Default	false
Introduced	16.0.R1

proxy-arp-policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Proxy ARP policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

remote-proxy-arp *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable remote proxy ARP on interface
Default	false
Introduced	16.0.R1

retry-timer *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP retry interval
Range	1 to 300
Default	50
Units	deciseconds
Introduced	16.0.R1

route-tag *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP route tag
Range	1 to 255
Introduced	16.0.R1

static-neighbor [ipv4-address] *ipv4-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor context
Introduced	16.0.R1

[ipv4-address] *ipv4-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	IPv4 address corresponding to the media-dependent physical address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-address *mac-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

static-neighbor-unnumbered

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor-unnumbered context
Introduced	16.0.R1

mac-address *mac-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery static-neighbor-unnumbered**
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 neighbor-discovery**
Description	Timeout for an ARP entry learned on the interface
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

primary

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the primary context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is mandatory

broadcast *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 primary**
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

prefix-length *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 primary**
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 primary**
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

qos-route-lookup *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	QoS Route lookup
Options	destination, source
Introduced	16.0.R1

secondary [address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**

Description Enter the secondary context

Introduced 16.0.R1

[address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*

Description IPv4 address for a router interface

Introduced 16.0.R1

Notes This element is part of a list key

broadcast *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*

Description Broadcast address format

Default host-ones

Options all-ones, host-ones

Introduced 16.0.R1

igp-inhibit *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*

Description Secondary IP address that is not recognized as local interface by the running IGP

Default false

Introduced 16.0.R1

prefix-length *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*

Description IPv4 address prefix length

Range 0 to 32

Introduced 16.0.R1

Notes This element is mandatory

track-srrp *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

tcp-mss *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	TCP maximum segment size for the interface
Range	384 to 9158
Introduced	16.0.R1

unnumbered

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description	Enter the unnumbered context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 unnumbered**
Description	IP address of the interface
Introduced	16.0.R1
Notes	This element is part of a choice

ip-int-name *interface-name*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 unnumbered**
Description	Name of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

urpf-check

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description Enter the urpf-check context
Introduced 16.0.R1

ignore-default *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 urpf-check**
Description Ignore default route when performing a uRPF check
Default false
Introduced 16.0.R1

mode *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 urpf-check**
Description Unicast RPF check mode
Default strict
Options strict, loose, strict-no-ecmp
Introduced 16.0.R1

vrrp [virtual-router-id] *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4**
Description Enter the vrrp context
Introduced 16.0.R1

[virtual-router-id] *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description Virtual Router Identifier (VRID) for the VRRP virtual router instance
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Administrative state of VRRP
Default	enable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Password for simple text authentication
String Length	1 to 38
Introduced	16.0.R1

backup *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Virtual router IP addresses for the interface
Max. Elements	16
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv4-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Destination IP address to be used for BFD session
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

init-delay *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	VRRP initialization delay timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	MAC address used by virtual router instance overriding the VRRP default derived from the VRID
Introduced	16.0.R1

master-int-inherit *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the master instance to dictate the master down timer
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

message-interval *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Interval for sending VRRP Advertisement messages
Range	1 to 2559
Default	10
Units	deciseconds
Introduced	16.0.R1

oper-group *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Operational group name associated with VRRP
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

owner



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Designate virtual router instance as owning the virutal router IP addresses
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Suppress the transmission and reception of VRRP advertisement messages
Default	false
Introduced	16.0.R1

ping-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to ICMP echo requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	VRRP priority control policy associated with the virtual router instance
Reference	configure **vrrp policy** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

preempt *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the VRRP to override an existing non-owner master
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

priority *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Base priority for the VRRP
Range	1 to 255
Introduced	16.0.R1

ssh-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to SSH requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

standby-forwarding *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow the forwarding of packets by a standby router
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

telnet-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to Telnet requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

traceroute-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv4 vrrp** *number*
Description	Allow non-owner master to reply to traceroute requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the ipv6 context
Introduced	16.0.R1

address [ipv6-address] *ipv6-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the address context
Introduced	16.0.R1

[ipv6-address] *ipv6-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

duplicate-address-detection *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Enable/disable Duplicate Address Detection.
Default	true
Introduced	16.0.R1

eui-64 *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Form complete IPv6 address from supplied prefix and 64-bit interface identifier
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address prefix length
Range	0 to 128
Introduced	16.0.R1
Notes	This element is mandatory

primary-preference *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Order to enforce in which the address is used from control plane protocols and applications
Range	1 to 4294967295
Introduced	16.0.R1

track-srrp *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 address** *ipv6-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

bfd

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 bfd**
Description BFD transmit interval over this interface
Range 10 to 100000
Default 100
Units milliseconds
Introduced 16.0.R1

type *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 bfd**
Description BFD session termination
Default auto
Options cpm-np, auto
Introduced 16.0.R1

dhcp6

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**
Description Enter the dhcp6 context
Introduced 16.0.R1

relay

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6**
Description Enter the relay context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description Administrative state of DHCPv6 relay
Default disable
Options enable, disable
Introduced 16.0.R1

description *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

lease-populate

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Enter the lease-populate context
Introduced	16.0.R1

max-nbr-of-leases *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate**
Description	Maximum number of lease states allocated by the DHCPv6 relay function, allowed on interface
Range	0 to 32767
Default	0
Introduced	16.0.R1

route-populate

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate**
Description	Enter the route-populate context
Introduced	16.0.R1

na *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate**
Description	Create route based on IA_NA prefix option in relay-reply message
Default	false
Introduced	16.0.R1

pd

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate**

Description Enter the pd context

Introduced 16.0.R1

exclude *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate pd**

Description Create back hole route based on prefix exclude option in relay-reply message

Default false

Introduced 16.0.R1

ta *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay lease-populate route-populate**

Description Create route based on IA_TA prefix option in relay-reply message

Default false

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**

Description Link address of the DHCPv6 relay messages

Introduced 16.0.R1

neighbor-resolution *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**

Description Enable neighbor resolution via DHCPv6 relay

Default false

Introduced 16.0.R1

option

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**

Description Enter the option context

Introduced 16.0.R1

interface-id

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option**

Description Enter the interface-id context

Introduced 16.0.R1

ascii-tuple

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**

Description Use ASCII-encoded concatenated tuple in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

if-index

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**

Description Use interface index in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

sap-id

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**

Description Use SAP ID in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option interface-id**
Description	String for interface ID option in DHCPv6 relay packet
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay option**
Description	Allow remote ID option to be sent in the DHCPv6 relay packet
Default	false
Introduced	16.0.R1

python-policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Python policy name
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

server *ipv6-address-with-zone*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	DHCPv6 server to which the DHCPv6 requests are forwarded
Max. Elements	8
Introduced	16.0.R1
Notes	This element is ordered by user

source-address *ipv6-unicast-or-linklocal-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Source IPv6 address of the DHCPv6 relay messages
Introduced	16.0.R1

user-db *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 relay**
Description	Local user database for authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

server

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6**
Description	Enter the server context
Introduced	16.0.R1

max-nbr-of-leases *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server**
Description	DHCPv6 leases allowed
Range	0 to 8000
Default	8000
Introduced	16.0.R1

prefix-delegation

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server**
Description	Enter the prefix-delegation context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation**
Description	Administrative state of the prefix delegation
Default	disable
Options	enable, disable
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation**
Description	Enter the prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*
Description	IPv6 prefix to be delegated
Introduced	16.0.R1
Notes	This element is part of a list key

client-id

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*
Description	Enter the client-id context
Introduced	16.0.R1

duid *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix* **client-id**
Description	Requesting router ID
String Length	1 to 130
Introduced	16.0.R1

iaid *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix* **client-id**
Description	IAID from the requesting router that matches to delegate the prefix
Range	1 to 4294967295
Introduced	16.0.R1

preferred-lifetime (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*

Description IPv6 prefix/mask preferred life time

Default 604800

Units seconds

Introduced 16.0.R1

valid-lifetime (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 dhcp6 server prefix-delegation prefix** *ipv6-prefix*

Description IPv6 prefix/mask valid life time

Default 2592000

Units seconds

Introduced 16.0.R1

duplicate-address-detection *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description Enable/disable Duplicate Address Detection

Default true

Introduced 16.0.R1

icmp6

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description Enter the icmp6 context

Introduced 16.0.R1

packet-too-big

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6**

Description Enter the packet-too-big context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 packet-too-big**

Description Administrative state of packet-too-big messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 packet-too-big**

Description Number of packet-too-big messages

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 packet-too-big**

Description Time to limit packet-too-big messages

Range 1 to 60

Default 10

Introduced 16.0.R1

param-problem

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6**

Description Enter the param-problem context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 param-problem**

Description Administrative state of param-problem messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 param-problem**

Description Number of parameter-problem messages

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 param-problem**

Description Time to limit parameter problem messages

Range 1 to 60

Default 10

Introduced 16.0.R1

redirects

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6**

Description Enter the redirects context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 redirects**

Description Administrative state of the redirect messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 redirects**
Description Number of redirect messages
Range 10 to 1000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 redirects**
Description Time to limit redirect messages
Range 1 to 60
Default 10
Introduced 16.0.R1

time-exceeded

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description Enter the time-exceeded context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 time-exceeded**
Description Administrative state of the time-exceeded messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 time-exceeded**
Description Number of time-exceeded messages
Range 10 to 2000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 time-exceeded**
Description Time to limit time-exceeded messages
Range 1 to 60
Default 10
Introduced 16.0.R1

unreachables

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6**
Description Enter the unreachables context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 unreachables**
Description Administrative state of the unreachable messages
Default enable
Options enable, disable
Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 unreachables**
Description Number of unreachable messages
Range 10 to 2000
Default 100
Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 icmp6 unreachables**
Description Time to limit unreachable messages
Range 1 to 60
Default 10
Introduced 16.0.R1

link-local-address

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description Enter the link-local-address context

Introduced 16.0.R1

address *ipv6-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 link-local-address**

Description Link-local IPv6 address of this router interface

Introduced 16.0.R1

duplicate-address-detection *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 link-local-address**

Description Enable/disable Duplicate Address Detection.

Default true

Introduced 16.0.R1

local-dhcp-server *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description DHCP server for the interface

Reference configure **service vprn** *service-name* **dhcp-server dhcpv6** *string*

Introduced 16.0.R1

neighbor-discovery

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

learn-unsolicited *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Type of entries learned from unsolicited NA messages
Options	global, link-local, both
Introduced	16.0.R1

limit

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Log warning messages at threshold or when limit is exceeded, however entries are learned above limit
Default	false
Introduced	16.0.R1

max-entries *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Maximum number of entries that can be learned on an IP interface
Range	0 to 102400
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery limit**
Description	Threshold value that triggers a warning message to be sent
Range	1 to 100
Default	90
Units	percent
Introduced	16.0.R1

local-proxy-nd *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enable neighbor discovery on interface
Default	false
Introduced	16.0.R1

populate-host *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Allow addition or deletion of host routes in route table derived from ARP entries in ARP cache
Default	false
Introduced	16.0.R1

proactive-refresh *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Neighbor entries to be refreshed proactively
Options	global, link-local, both
Introduced	16.0.R1

proxy-nd-policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Name of the proxy Neighbor Discovery policies for the interface
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

reachable-time *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Timer for neighbor reachability detection
Range	30 to 3600
Introduced	16.0.R1

route-tag *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	ARP route tag
Range	1 to 255
Introduced	16.0.R1

secure-nd

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**
Description	Enter the secure-nd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Administrative state of secure neighbor discovery
Default	disable
Options	enable, disable
Introduced	16.0.R1

allow-unsecured-msgs *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Accept unsecured messages
Default	true
Introduced	16.0.R1

public-key-min-bits *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**
Description	Minimum acceptable key length for public keys
Range	512 to 1024
Default	1024
Introduced	16.0.R1

security-parameter *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery secure-nd**

Description Security parameter in the generation of a cryptographical address

Range 0 to 1

Default 1

Introduced 16.0.R1

stale-time *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**

Description Time during which a neighbor discovery cache entry remains stale

Range 60 to 65535

Introduced 16.0.R1

static-neighbor [ipv6-address] *ipv6-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery**

Description Enter the static-neighbor context

Introduced 16.0.R1

[ipv6-address] *ipv6-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery static-neighbor** *ipv6-address*

Description IPv6 address corresponding to the media-dependent physical address

Introduced 16.0.R1

Notes This element is part of a list key

mac-address *mac-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 neighbor-discovery static-neighbor** *ipv6-address*

Description Media-dependent physical address

Introduced 16.0.R1

Notes This element is mandatory

qos-route-lookup *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description QoS Route lookup

Options destination, source

Introduced 16.0.R1

tcp-mss *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description TCP maximum segment size for the interface

Range 1220 to 9138

Introduced 16.0.R1

urpf-check

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6**

Description Enter the urpf-check context

Introduced 16.0.R1

ignore-default *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 urpf-check**

Description Ignore default route when performing a uRPF check

Default false

Introduced 16.0.R1

mode *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ipv6 urpf-check**

Description Unicast RPF check mode

Default strict

Options strict, loose, strict-no-ecmp

Introduced 16.0.R1

vrrp [virtual-router-id] *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6**
Description	Enter the vrrp context
Max. Elements	1
Introduced	16.0.R1

[virtual-router-id] *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Virtual Router Identifier (VRID) for the VRRP virtual router instance
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Administrative state of VRRP
Default	enable
Options	enable, disable
Introduced	16.0.R1
Notes	This element is part of a choice

backup *ipv6-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Virtual router IP addresses for the interface
Max. Elements	4
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv6-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	ip-address.
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

init-delay *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	VRRP initialization delay timer
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

mac *mac-unicast-address*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	MAC address used by virtual router instance overriding the VRRP default derived from the VRID
Introduced	16.0.R1

master-int-inherit *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the master instance to dictate the master down timer
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

message-interval *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Interval for sending VRRP Advertisement messages
Range	1 to 4095
Default	100
Units	centiseconds
Introduced	16.0.R1

oper-group *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Operational group name associated with VRRP
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

owner

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Designate virtual router instance as owning the virutal router IP addresses
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Suppress the transmission and reception of VRRP advertisement messages
Default	false
Introduced	16.0.R1

ping-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to ICMP echo requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	VRRP priority control policy associated with the virtual router instance
Reference	configure **vrrp policy** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

preempt *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the VRRP to override an existing non-owner master
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

priority *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Base priority for the VRRP
Range	1 to 255
Introduced	16.0.R1

standby-forwarding *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow the forwarding of packets by a standby router
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

telnet-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to Telnet requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

traceroute-reply *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **ipv6 vrrp** *number*
Description	Allow non-owner master to reply to traceroute requests
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

load-balancing

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the load-balancing context
Introduced	16.0.R1

ip-load-balancing *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **load-balancing**
Description	Configure IP load balancing algorithm.
Default	both
Options	both, destination, source, inner-ip
Introduced	16.0.R3

spi-load-balancing *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **load-balancing**
Description	Allow use of SPI (Security Parameter Index) in hashing for ESP/AH encrypted IPv4/IPv6 traffic
Default	false
Introduced	16.0.R1

teid-load-balancing *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **load-balancing**
Description	Include TEID in hashing algorithm for GTP-U/C encapsulated traffic
Default	false
Introduced	16.0.R1

loopback *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Use interface as a loopback interface
Default	false
Introduced	16.0.R1

mac *mac-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name*

Description MAC address for the interface

Introduced 16.0.R1

mac-accounting *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name*

Description Enable MAC accounting functionality

Default false

Introduced 16.0.R1

monitor-oper-group *string*

Context **configure service vprn** *service-name* **interface** *interface-name*

Description Operational group to monitor

Reference configure **service oper-group** *string*

Introduced 16.0.R1

ptp-hw-assist

Context **configure service vprn** *service-name* **interface** *interface-name*

Description Enter the ptp-hw-assist context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **ptp-hw-assist**

Description Administrative state of the port-based timestamping assist function for the interface

Default disable

Options enable, disable

Introduced 16.0.R1

radius-auth-policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Authentication policy
Reference	configure **subscriber-mgmt radius-authentication-policy** *string*
Introduced	16.0.R1

sap [sap-id] *sap*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the sap context
Max. Elements	1
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Accounting policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Administrative state of the SAP
Default	enable
Options	enable, disable
Introduced	16.0.R1

anti-spoof *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Anti-spoof filtering
Options	source-ip-addr, source-mac-addr, source-ip-and-mac-addr, next-hop-ip-and-mac-addr
Introduced	16.0.R1

bandwidth *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	SAP bandwidth
Range	1 to 3200000000
Units	kilobps
Introduced	16.0.R1

calling-station-id *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Calling station ID
String Length	1 to 64
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Collect accounting statistics
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Apply rate limit to the sum of the per peer packet rates
Introduced	16.0.R1
Notes	This element is part of a choice

car

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**
Description	Eth-CFM packets to be ignored when enforcing overall rate
Introduced	16.0.R1
Notes	This element is part of a choice

ip-src-monitoring

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Enable IP source monitoring for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

mac-monitoring

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Monitor MAC for CPU protection
Introduced	16.0.R1
Notes	This element is part of a choice

policy-id *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **cpu-protection**
Description CPM protection policy
Reference configure **system security cpu-protection policy** *number*
Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description Text description
String Length 1 to 160
Introduced 16.0.R1

dist-cpu-protection *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description Distributed CPU protection policy for SAP
Reference configure **system security dist-cpu-protection policy** *string*
Introduced 16.0.R1

egress

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description Enter the egress context
Introduced 16.0.R1

agg-rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress**
Description Enter the agg-rate context
Introduced 16.0.R1

limit-unused-bandwidth *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress agg-rate**
Description	Enable aggregate rate overrun protection
Default	false
Introduced	16.0.R1

queue-frame-based-accounting *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress agg-rate**
Description	Enable frame-based accounting on all policers and queues associated with context
Default	false
Introduced	16.0.R1

rate *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress agg-rate**
Description	Maximum total rate of all egress queues in kbps.
Range	1 to 3200000000
Introduced	16.0.R1

filter

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress**
Description	Enter the filter context
Introduced	16.0.R1

ip *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress filter**
Description	MAC filter ID
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

policer-control-policy

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Priority level
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*
Description	Minimum amount of cumulative buffer space allowed
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

policy-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos policer-control-policy**
Description	Policer control policy name
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

qinq-mark-top-only *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**
Description	Mark top Q-tags
Default	false
Introduced	16.0.R1

sap-egress

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**
Description	Enter the sap-egress context
Introduced	16.0.R1

overrides

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress**
Description	Enter the overrides context
Introduced	16.0.R1

hs-secondary-shaper *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	HS Secondary Shaper
String Length	1 to 32
Introduced	16.0.R1

hs-wrr-group [group-id] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hs-wrr-group context
Introduced	16.0.R4

[group-id] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	HS WRR group identifier
Reference	configure **qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

hs-class-weight *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Weight of scheduling class.
Range	1 | 2 | 4 | 8
Introduced	16.0.R1

percent-rate *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR percent.
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hs-wrr-group** *string*
Description	Administrative PIR.
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

hsmda-queues

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the hsmda-queues context
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**
Description	Packet byte offset for HSMDA queue
Range	-64 to 31
Introduced	16.0.R1

queue [queue-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**

Description Enter the queue context

Introduced 16.0.R4

[queue-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Egress HSMDA queue ID

Reference configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

mbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Buffer space allowed for the queue

Units bytes

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Administrative PIR rate.

Introduced 16.0.R1

slope-policy *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Name of the slope-policy which is used to override the default slope-policy for the named buffer pool.

Reference configure **qos hsmda-slope-policy** *string*

Introduced 16.0.R1

wrr-weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues queue** *string*

Description Weight value for the HSMDA queue

Range 1 to 32

Introduced 16.0.R1

secondary-shaper *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**

Description Secondary shaper for the HSMDA queue

String Length 1 to 32

Introduced 16.0.R1

wrr-policy *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides hsmda-queues**

Description WRR policy for the HSMDA queue

Reference configure **qos hsmda-wrr-policy** *string*

Introduced 16.0.R1

policer [policer-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**

Description Enter the policer context

Introduced 16.0.R4

[policer-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Policer unique ID

Reference configure **qos sap-egress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

Notes This element is part of a list key

cbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description CBS

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Size of each packet, handled by the policer, to be modified

Range -64 to 31

Introduced 16.0.R1

percent-rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

stat-mode *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides policer** *string*
Description	Mode of statistics collected by the policer
Options	no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile
Introduced	16.0.R1

queue [queue-id] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides**
Description	Enter the queue context
Introduced	16.0.R4

[queue-id] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Policer unique ID
Reference	configure **qos sap-egress** *qos-policy-name* **queue** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

adaptation-rule

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

avg-frame-overhead *decimal-number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Encapsulation overhead, in centipercent, used to translate packet-based rate to frame-based rate and vice versa.

Range 0.00 to 100.00

Introduced 16.0.R1

burst-limit (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Explicit shaping burst size of a queue.

Range 1 to 14000000

Options auto

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobytes

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

hs-class-weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Scheduling class weight.

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

hs-wred-queue

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the hs-wred-queue context

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **hs-wred-queue**

Description Name of slope-policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R1

hs-wrr-weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Weighted Round Robin (WRR) weight to parent with this queue into the scheduler

Range 1 to 127

Default 1

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Units kilobytes

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Monitor queue depth

Default false

Introduced 16.0.R1

parent

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**

Description CIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **parent**

Description PIR parameter that overrides parent for queue group

Range 0 to 100

Introduced 16.0.R1

percent-rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress overrides queue** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

policy-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress**
Description	Policy identifier
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

port-redirect-group

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress**
Description	Enter the port-redirect-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress port-redirect-group**
Description	Policy for port redirect queue group
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1

instance *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos sap-egress port-redirect-group**

Description Instance of port queue group

Range 1 to 65535

Introduced 16.0.R1

scheduler-policy

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

overrides

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy**

Description Enter the overrides context

Introduced 16.0.R4

scheduler [scheduler-name] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

queue-group-redirect-list *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **egress**

Description Queue group redirect list

Reference configure **qos queue-group-redirect-list** *string*

Introduced 16.0.R4

eth-cfm

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the eth-cfm context

Introduced 16.0.R1

collect-lmm-fc-stats

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**

Description Enter the collect-lmm-fc-stats context

Introduced 16.0.R1

fc *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* **ma-admin-name** *string* **mep-id** *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate AIS frames from the Maintenance Entity Group (MEG).
Default	false
Introduced	16.0.R1

alarm-notification

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate CCM messages
Default	false
Introduced	16.0.R1

ccm-ltm-priority *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Priority of CCM and LTM messages transmitted by the MEP
Range	0 to 7
Default	7
Introduced	16.0.R1

ccm-padding-size *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Additional octets inserted into CCM PDU for data TLV padding
Range	3 to 1500
Introduced	16.0.R1

csf

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the csf context
Introduced	16.0.R1

multiplier *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

eth-test

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the eth-test context

Introduced 16.0.R1

bit-error-threshold *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Lowest priority defect threshold for the bit error trap to generate a fault alarm

Range 0 to 11840

Default 1

Units bit errors

Introduced 16.0.R1

test-pattern

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm mep** **md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

fwd-wholesale

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the fwd-wholesale context

Introduced 16.0.R4

pppoe-service *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **fwd-wholesale**

Description PPPoE service name

Reference configure **service epipe** *service-name*

Introduced 16.0.R4

host-admin-state *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Enable/disable administrative state of hosts

Default enable

Options enable, disable

Introduced 16.0.R1

host-lockout-policy *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Host lockout policy

Reference configure **subscriber-mgmt host-lockout-policy** *string*

Introduced 16.0.R1

ingress

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policer-control-policy

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R4

max-rate (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Maximum frame-based bandwidth limit

Range 1 to 2000000000

Options max

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R4

min-thresh-separation (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum amount of separation buffer space

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

priority [priority-level] *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R4

[priority-level] *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Priority level

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Minimum amount of cumulative buffer space allowed

Range 0 to 16777216

Units bytes

Options auto

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

sap-ingress

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the sap-ingress context

Introduced 16.0.R1

fp-redirect-group

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**

Description Forwarding-plane queue group policy

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress fp-redirect-group**

Description Queue group instance

Range 1 to 65535

Introduced 16.0.R1

overrides

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Enter the overrides context

Introduced 16.0.R4

policer [policer-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides**

Description Enter the policer context

Introduced 16.0.R4

[policer-id] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Policer unique ID
Reference	configure **qos sap-ingress** *qos-policy-name* **policer** *number*
Introduced	16.0.R1
Notes	This element is part of a list key

cbs (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	CBS
Range	0 to 16777216
Units	bytes
Options	auto
Introduced	16.0.R1

mbs (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	MBS
Range	0 to 1073741824
Options	auto
Introduced	16.0.R1

packet-byte-offset *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*
Description	Size of each packet, handled by the policer, to be modified
Range	-32 to 31
Introduced	16.0.R1

percent-rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Enter the **percent-rate** context

Introduced 16.0.R1

cir *decimal-number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**

Description CIR percent rate

Range 0.00 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

pir *decimal-number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **percent-rate**

Description PIR percent rate

Range 0.01 to 100.00

Introduced 16.0.R1

Notes This element is part of a choice

rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Enter the **rate** context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**

Description CIR rate

Range 0 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

pir (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string* **rate**

Description PIR rate

Range 1 to 2000000000

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

stat-mode *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides policer** *string*

Description Mode of statistics collected by the policer

Options no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir

Introduced 16.0.R1

queue [queue-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides**

Description Enter the queue context

Introduced 16.0.R4

[queue-id] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Policer unique ID

Reference configure **qos sap-ingress** *qos-policy-name* **queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

adaptation-rule

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the adaptation-rule context

Introduced 16.0.R1

cir *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational CIR value

Options max, min, closest

Introduced 16.0.R1

pir *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **adaptation-rule**

Description Constraint used when deriving the operational PIR value

Options max, min, closest

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description CBS

Range 0 to 1048576

Units kilobps

Options auto

Introduced 16.0.R1

drop-tail

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description Enter the drop-tail context

Introduced 16.0.R1

low

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail**

Description Enter the low context

Introduced 16.0.R1

percent-reduction-from-mbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **drop-tail low**

Description Percentage reduction from the MBS for a queue drop tail

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*

Description MBS

Range 0 to 1073741824

Options auto

Introduced 16.0.R1

monitor-depth *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Monitor queue depth
Default	false
Introduced	16.0.R1

parent

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the parent context
Introduced	16.0.R1

cir-weight *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**
Description	CIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

weight *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **parent**
Description	PIR parameter that overrides parent for queue group
Range	0 to 100
Introduced	16.0.R1

percent-rate

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the **percent-rate** context
Introduced	16.0.R1

cir *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**
Description	CIR percent rate
Range	0.00 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

pir *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **percent-rate**
Description	PIR percent rate
Range	0.01 to 100.00
Introduced	16.0.R1
Notes	This element is part of a choice

rate

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string*
Description	Enter the **rate** context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**
Description	CIR rate
Range	0 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

pir (*number* | *keyword*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress overrides queue** *string* **rate**
Description	PIR rate
Range	1 to 2000000000
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

policy-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**
Description	Policy identifier
Reference	configure **qos sap-ingress** *qos-policy-name*
Introduced	16.0.R1

queuing-type *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**
Description	Ingress queuing type
Options	shared, multipoint-shared
Introduced	16.0.R1

scheduler-policy

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy**
Description	Enter the overrides context
Introduced	16.0.R4

scheduler [scheduler-name] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides**

Description Enter the scheduler context

Introduced 16.0.R4

[scheduler-name] *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Scheduler override policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

parent

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the parent context

Introduced 16.0.R1

cir-weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight that is used by the scheduler until the committed rate for feeding this queue

Range 0 to 100

Introduced 16.0.R1

weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **parent**

Description Weight to be used by the scheduler for feeding this queue

Range 0 to 100

Introduced 16.0.R1

rate

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR

Range 0 to 3200000000

Options sum, max

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR

Range 1 to 3200000000

Options max

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

queue-group-redirect-list *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ingress**

Description Queue group redirect list

Reference configure **qos queue-group-redirect-list** *string*

Introduced 16.0.R4

ip-tunnel [tunnel-name] *interface-name*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the ip-tunnel context
Max. Elements	1
Introduced	16.0.R1

[tunnel-name] *interface-name*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	IP tunnel name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Administrative state of the tunnel
Default	disable
Options	enable, disable
Introduced	16.0.R1

backup-remote-ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Backup remote IP address that is applied to this tunnel
Introduced	16.0.R1

clear-df-bit *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Clear the Do-not-Fragment bit
Default	false
Introduced	16.0.R1

delivery-service *service-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Delivery service name
String Length	1 to 64
Introduced	16.0.R1

description *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dest-ip [dest-ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Enter the dest-ip context
Introduced	16.0.R1

[dest-ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **dest-ip** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Destination IP address of the tunnel
Introduced	16.0.R1
Notes	This element is part of a list key

dscp *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Differentiated Services Code Point (DSCP) name
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

encapsulated-ip-mtu *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Encapsulated IP MTU of this tunnel
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

gre-header

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Enter the gre-header context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header**
Description	Administrative state of the GRE header in the tunnel
Options	enable, disable
Introduced	16.0.R1

key

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header**
Description	Enter the key context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header key**
Description	Administrative state of the keys in the GRE header
Default	disable
Options	enable, disable
Introduced	16.0.R1

receive *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header key**
Description	Receive key of a GRE header
Default	0
Introduced	16.0.R1

send *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **gre-header key**
Description	Send key of a GRE header
Default	0
Introduced	16.0.R1

icmp6-generation

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Enter the icmp6-generation context
Introduced	16.0.R1

packet-too-big

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation**

Description Enter the packet-too-big context

Introduced 16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation packet-too-big**

Description Administrative state of packet-too-big messages

Options enable, disable

Introduced 16.0.R1

number *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation packet-too-big**

Description Number of packet-too-big ICMPv6 messages issued in a specified time frame

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name* **icmp6-generation packet-too-big**
Description	Time frame to limit the number of packet-too-big ICMPv6 messages
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ip-mtu *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	IP MTU of this tunnel
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

local-ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Local IP address of this tunnel
Introduced	16.0.R1

private-tcp-mss-adjust *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	TCP maximum segment size (MSS) on private network
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	TCP maximum segment size (MSS) on private network
Range	512 to 9000
Units	bytes
Options	auto
Introduced	16.0.R1

reassembly (*number* | *keyword*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Reassembly wait time
Range	1 to 5000
Units	milliseconds
Options	use-tunnel-group-setting, none
Introduced	16.0.R1

remote-ip-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ip-tunnel** *interface-name*
Description	Remote IP address of this tunnel
Introduced	16.0.R1

ipsec-gateway [name] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*
Description	Enter the ipsec-gateway context
Max. Elements	1
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	IPsec gateway name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	Administrative state of the IPsec gateway.
Default	disable
Options	enable, disable
Introduced	16.0.R1

default-secure-service

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*

Description Enter the default-secure-service context

Introduced 16.0.R1

interface *interface-name*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **default-secure-service**

Description The name of the default interface used by this IPsec gateway.

String Length 1 to 32

Introduced 16.0.R1

service-name *service-name*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **default-secure-service**

Description The name of the default security service used by this IPsec gateway.

String Length 1 to 64

Introduced 16.0.R1

default-tunnel-template *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*

Description The IPsec tunnel template ID.

Reference configure **ipsec tunnel-template** *number*

Introduced 16.0.R1

ike-policy *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*

Description IKE policy ID.

Reference configure **ipsec ike-policy** *number*

Introduced 16.0.R1

local

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*

Description Enter the local context

Introduced 16.0.R1

gateway-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local**

Description The IPsec gateway address.

Introduced 16.0.R1

id

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local**

Description Enter the id context

Introduced 16.0.R1

auto



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	System picks a local ID automatically based on auth-method configured in ike-policy.
Introduced	16.0.R1
Notes	This element is part of a choice

fqdn *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	The Fully Qualified Domain Name (FQDN) Local ID.
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4 *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	The IPv4 Local ID.
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6 *ipv6-unicast-address*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **local id**
Description	The IPv6 Local ID.
Introduced	16.0.R1
Notes	This element is part of a choice

max-history-key-records

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	Enter the max-history-key-records context
Introduced	16.0.R1

esp *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **max-history-key-records**
Description	The maximum number of historical ESP keys which can be recorded by the system.
Range	1 to 48
Introduced	16.0.R1

ike *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string* **max-history-key-records**
Description	The maximum number of historical IKE keys which can be recorded by the system.
Range	1 to 3
Introduced	16.0.R1

pre-shared-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **ipsec-gateway** *string*
Description	The pre-shared key used for authentication by two peers forming the tunnel for the IPSec gateway.
String Length	1 to 114
Introduced	16.0.R1

lag

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the lag context

Introduced 16.0.R1

link-map-profile *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **lag**

Description LAG link map profile applied to a SAP or network interface

Range 1 to 64

Introduced 16.0.R1

per-link-hash

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **lag**

Description Enter the per-link-hash context

Introduced 16.0.R1

class *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **lag per-link-hash**

Description Class used on LAG egress when using weighted per-link-hash

Range 1 to 3

Default 1

Introduced 16.0.R1

weight *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **lag per-link-hash**

Description Weight used on LAG egress when using weighted per-link-hash

Range 1 to 1024

Default 1

Introduced 16.0.R1

multi-service-site *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Multi service site name

String Length 1 to 32

Introduced 16.0.R1

static-host

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap*

Description Enter the static-host context

Introduced 16.0.R1

ipv4 [ip] *ipv4-address* **mac** *mac-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host**

Description Enter the ipv4 context

Introduced 16.0.R1

[ip] *ipv4-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description IP address

Introduced 16.0.R1

Notes This element is part of a list key

mac *mac-unicast-address*

Context **configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*

Description MAC address

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Administrative state of the static host
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp-string *ancp-string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

sla-profile *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	SLA profile name
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Sub-profile name
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

subscriber-id

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address*
Description	Enter the subscriber-id context
Introduced	16.0.R1

string *subscriber-id*

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Subscriber identification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

use-sap-id

Context	**configure service vprn** *service-name* **interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Use the SAP id as subscriber ID
Introduced	16.0.R1
Notes	This element is part of a choice

shcv-policy-ipv4 *string*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Host connectivity IPv4 policy
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the spoke-sdp context
Max. Elements	1
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Policy to collect accounting statistics
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

encap *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **bfd-liveness**
Description	BFD encapsulation used on this SDP binding
Default	ipv4
Options	ipv4
Introduced	16.0.R1

bfd-template *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	BFD template associated with SDP binding
Reference	configure **bfd bfd-template** *string*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Allow agent to collect accounting statistics
Default	false
Introduced	16.0.R1

control-word *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Use the control word as preferred
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**

Description Enter the **eth-cfm-monitoring** context

Introduced 16.0.R1

aggregate

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**

Description Apply rate limit to the sum of the per peer packet rates

Introduced 16.0.R1

Notes This element is part of a choice

car

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection eth-cfm-monitoring**

Description Eth-CFM packets to be ignored when enforcing overall rate

Introduced 16.0.R1

Notes This element is part of a choice

ip-src-monitoring

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**

Description Enable IP source monitoring for CPU protection

Introduced 16.0.R1

Notes This element is part of a choice

mac-monitoring

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**

Description Monitor MAC for CPU protection

Introduced 16.0.R1

Notes This element is part of a choice

policy-id *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **cpu-protection**

Description CPM protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

egress

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos**

Description Enter the network context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network**

Description Egress network policy name applied to this SDP binding

Reference configure **qos network** *network-policy-name*

Introduced 16.0.R1

port-redirect-group

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network**

Description Enter the port-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**

Description Policy for port queue group for this SDP binding

Reference configure **qos queue-group-templates egress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress qos network port-redirect-group**

Description Instance of the port egress Queue Group for this SDP binding.

Range 1 to 65535

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Static MPLS VC label that is used to send packets to the far end device through this SDP

Range 16 to 1048575

Introduced 16.0.R1

entropy-label

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Whether the use of entropy-label is enabled or not.

Introduced 16.0.R1

Notes This element is part of a choice

eth-cfm

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the eth-cfm context

Introduced 16.0.R1

collect-lmm-fc-stats

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais *boolean*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate AIS frames from the Maintenance Entity Group (MEG).
Default	false
Introduced	16.0.R1

alarm-notification

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Generate CCM messages

Default false

Introduced 16.0.R1

ccm-ltm-priority *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Priority of CCM and LTM messages transmitted by the MEP

Range 0 to 7

Default 7

Introduced 16.0.R1

ccm-padding-size *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Additional octets inserted into CCM PDU for data TLV padding

Range 3 to 1500

Introduced 16.0.R1

csf

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-test

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-test context
Introduced	16.0.R1

bit-error-threshold *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Lowest priority defect threshold for the bit error trap to generate a fault alarm
Range	0 to 11840
Default	1
Units	bit errors
Introduced	16.0.R1

test-pattern

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Receive and process ETH-ED PDUs

Default true

Introduced 16.0.R1

tx-eth-ed *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmit ETH-ED PDUs

Default false

Introduced 16.0.R1

eth-vsm-grace

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-vsm-grace context

Introduced 16.0.R1

rx-eth-vsm-grace *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP

Default true

Introduced 16.0.R1

tx-eth-vsm-grace *boolean*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**

Description Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP

Default true

Introduced 16.0.R1

low-priority-defect *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Lowest priority defect that is allowed to generate a fault alarm

Default mac-rem-err-xcon

Options all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon

Introduced 16.0.R1

one-way-delay-threshold *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

hash-label

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the **hash-label** context
Introduced	16.0.R1

signal-capability

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **hash-label**
Description	To signal the hash label capability to the remote PE.
Introduced	16.0.R1
Notes	This element is part of a choice

ingress

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the ingress context
Introduced	16.0.R1

filter

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the qos context

Introduced 16.0.R1

network

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos**

Description Enter the network context

Introduced 16.0.R1

fp-redirect-group

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**

Description Enter the fp-redirect-group context

Introduced 16.0.R1

group-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**

Description Forwarding-plane queue group policy for this SDP binding

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R1

instance *number*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network fp-redirect-group**

Description Instance of the forwarding-plane ingress Queue Group for this SDP binding

Range 1 to 65535

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress qos network**

Description Ingress network policy name applied to this SDP binding

Reference configure **qos network** *network-policy-name*

Introduced 16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	1 to 1048575
Introduced	16.0.R1

vc-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Type of virtual circuit (VC) associated with the SDP binding
Default	ether
Options	ether, ipipe
Introduced	16.0.R1

tos-marking-state *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	TOS marking state
Default	trusted
Options	trusted, untrusted
Introduced	16.0.R1

tunnel *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enable/disable tunnel interface
Default	false
Introduced	16.0.R1

vas-if-type *keyword*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	VAS interface type
Options	to-from-access, to-from-network, to-from-both
Introduced	16.0.R1

vpls [vpls-name] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name*
Description	Enter the vpls context
Max. Elements	1
Introduced	16.0.R1

[vpls-name] *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **vpls** *string*
Description	VPLS service
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

egress

Context	**configure service vprn** *service-name* **interface** *interface-name* **vpls** *string*
Description	Enter the egress context
Introduced	16.0.R1

reclassify-using-qos *string*

Context	**configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **egress**
Description	Egress QoS policy
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

routed-override-filter

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **egress**

Description Enter the routed-override-filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **egress routed-override-filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **egress routed-override-filter**

Description IPv6 filter

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

evpn-tunnel

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string*

Description Enter the evpn-tunnel context

Introduced 16.0.R1

ipv6-gateway-address *keyword*

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **evpn-tunnel**

Description Type of IPv6 gateway address

Default ip

Options ip, mac

Introduced 16.0.R4

ingress

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string*

Description Enter the ingress context

Introduced 16.0.R1

routed-override-filter

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **ingress**

Description Enter the routed-override-filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **ingress routed-override-filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **interface** *interface-name* **vpls** *string* **ingress routed-override-filter**

Description IPv6 filter

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

ip-mirror-interface [interface-name] *interface-name*

Context **configure service vprn** *service-name*

Description Enter the ip-mirror-interface context

Introduced 16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name*
Description	Name of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name*
Description	Enter the spoke-sdp context
Max. Elements	1
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ingress

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Enter the ingress context
Introduced	16.0.R1

filter

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Enter the filter context
Introduced	16.0.R1

ip *string*

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**
Description	IP filter identifier
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

vc-label *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **ip-mirror-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**
Description	Static MPLS VC label used by the far end device to send packets through this SDP
Range	1 to 1048575
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name*
Description	Enter the ipv6 context
Introduced	16.0.R1

neighbor-discovery

Context	**configure service vprn** *service-name* **ipv6**
Description	Enter the neighbor-discovery context
Introduced	16.0.R1

reachable-time *number*

Context	**configure service vprn** *service-name* **ipv6 neighbor-discovery**
Description	Timer for neighbor reachability detection
Range	30 to 3600
Default	30
Introduced	16.0.R1

stale-time *number*

Context	**configure service vprn** *service-name* **ipv6 neighbor-discovery**
Description	Time during which a neighbor discovery cache entry remains stale before removal
Range	60 to 65535
Default	14400
Introduced	16.0.R1

router-advertisement

Context **configure service vprn** *service-name* **ipv6**
Description Enter the router-advertisement context
Introduced 16.0.R1

dns-options

Context **configure service vprn** *service-name* **ipv6 router-advertisement**
Description Enter the dns-options context
Introduced 16.0.R1

rdnss-lifetime (*keyword* | *number*)

Context **configure service vprn** *service-name* **ipv6 router-advertisement dns-options**
Description Maximum time over which the RDNSS address is valid
Range 0 | 4 to 3600
Default infinite
Units seconds
Options infinite
Introduced 16.0.R1

server *ipv6-address*

Context **configure service vprn** *service-name* **ipv6 router-advertisement dns-options**
Description Router advertisements that are forwarded to servers
Max. Elements 4
Introduced 16.0.R1
Notes This element is ordered by user

interface [ip-int-name] *string*

Context **configure service vprn** *service-name* **ipv6 router-advertisement**
Description Enter the interface context
Introduced 16.0.R1

[ip-int-name] *string*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	VPRN interface name
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Administrative state of router advertisement on an interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

current-hop-limit *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Hop limit to advertise in ICMPv6 ND router advertisement messages
Range	0 to 255
Default	64
Introduced	16.0.R1

dns-options

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Enter the dns-options context
Introduced	16.0.R1

include-rdnss *boolean*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **dns-options**
Description	Include the RDNSS option in the router advertisement sent from this interface
Default	true
Introduced	16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **dns-options**
Description	Maximum time over which the RDNSS address 25 is valid
Range	0 | 4 to 3600
Units	seconds
Options	infinite
Introduced	16.0.R1

server *ipv6-address*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **dns-options**
Description	Router advertisements that are forwarded to servers
Max. Elements	4
Introduced	16.0.R1
Notes	This element is ordered by user

managed-configuration *boolean*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Managed address configuration flag in ICMPv6 ND router advertisement messages
Default	false
Introduced	16.0.R1

max-advertisement-interval *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Maximum time between sending ICMPv6 ND router advertisement messages
Range	4 to 1800
Default	600
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Minimum time between sending ICMPv6 ND router advertisement messages
Range	3 to 1350
Default	200
Units	seconds
Introduced	16.0.R1

mtu *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	MTU for sending packets to the router
Range	1280 to 9212
Introduced	16.0.R1

other-stateful-configuration *boolean*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Other configuration flag to assign in ICMPv6 ND router advertisement messages
Default	false
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Enter the prefix context
Max. Elements	254
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **prefix** *ipv6-prefix*
Description	IPv6 address prefix
Introduced	16.0.R1
Notes	This element is part of a list key

autonomous *boolean*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **prefix** *ipv6-prefix*
Description	Autonomous flag value
Default	true
Introduced	16.0.R1

on-link *boolean*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **prefix** *ipv6-prefix*
Description	Use prefix for onlink determination
Default	true
Introduced	16.0.R1

preferred-lifetime (*keyword* | *number*)

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **prefix** *ipv6-prefix*
Description	Remaining time that the prefix remains preferred
Range	0 to 4294967294
Default	604800
Units	seconds
Options	infinite
Introduced	16.0.R1

valid-lifetime (*keyword* | *number*)

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string* **prefix** *ipv6-prefix*
Description	Remaining time during which the prefix continues to be valid
Range	0 to 4294967294
Default	2592000
Units	seconds
Options	infinite
Introduced	16.0.R1

reachable-time *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Time during which this router is considered reachable by other hosts or nodes on the subnet
Range	0 to 3600000
Default	0
Units	milliseconds
Introduced	16.0.R1

retransmit-time *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Interval to advertise in ICMPv6 ND router advertisement messages
Range	0 to 1800000
Default	0
Units	milliseconds
Introduced	16.0.R1

router-lifetime *number*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Lifetime value that the router advertises in ICMPv6 ND router advertisement messages
Range	0 | 4 to 9000
Default	1800
Units	seconds
Introduced	16.0.R1

use-virtual-mac *boolean*

Context	**configure service vprn** *service-name* **ipv6 router-advertisement interface** *string*
Description	Router advertisement messages to send using VRRP virtual MAC address
Default	false
Introduced	16.0.R1

isis [isis-instance] *number*

Context	**configure service vprn** *service-name*
Description	Enter the isis context
Introduced	16.0.R1

[isis-instance] *number*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Instance ID for IS-IS instance
Range	0 to 31
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Administrative state of IS-IS instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

advertise-passive-only *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Advertise only prefixes that belong to passive interfaces
Default	false
Introduced	16.0.R1

advertise-router-capability *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Advertise router capabilities to neighbors for information and troubleshooting purposes
Options	area, as
Introduced	16.0.R1

all-l1isis *mac-address*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Destination MAC address for all L1 ISIS neighbors on the link for this ISIS instance
Default	01:80:C2:00:00:14
Introduced	16.0.R1

all-l2isis *mac-address*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Destination MAC address for all L1 ISIS routers
Default	01:80:C2:00:00:15
Introduced	16.0.R1

area-address *area-address*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Area address portion of NSAP address
String Length	2 to 38
Max. Elements	3
Introduced	16.0.R1

authentication-check *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Perform authentication check to reject PDUs that do not match the type or key requirements
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Authentication key to verify PDUs sent by neighboring routers
String Length	1 to 366
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure service vprn** *service-name* **isis** *number*
Description	The keychain used to sign and/or authenticate.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

authentication-type *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Authentication type
Options	password, message-digest
Introduced	16.0.R1

csnp-authentication *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Authenticate individual IS-IS protocol packets of complete sequence number PDU (CSNP) type
Default	true
Introduced	16.0.R1

default-route-tag *number*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Route tag for default route
Range	1 to max
Introduced	16.0.R1

export-limit

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the export-limit context
Introduced	16.0.R1

log-percent *number*

Context	**configure service vprn** *service-name* **isis** *number* **export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **isis** *number* **export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

export-policy *string*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

graceful-restart

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **graceful-restart**
Description	Enable graceful restart helper for IS-IS
Default	true
Introduced	16.0.R1

hello-authentication *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Authenticate individual IS-IS protocol packets of Hello type
Default	true
Introduced	16.0.R1

hello-padding *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Padding on IS-IS Hello packets
Options	adaptive, loose, strict, none
Introduced	16.0.R1

ignore-attached-bit *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Ignore attached bit on received L1 LSPs to disable installation of default routes
Default	false
Introduced	16.0.R1

ignore-lsp-errors *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Ignore LSP packets with errors
Default	false
Introduced	16.0.R1

ignore-narrow-metric *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Ignore links with narrow metrics when wide-metrics support is enabled
Default	false
Introduced	16.0.R1

iid-tlv *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Use IID TLVs with IS-IS multi-instance (MI)
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Router interface name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Administrative state of interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

ipv4

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **bfd-liveness**
Description	Enter the ipv4 context
Introduced	16.0.R1

include-bfd-tlv *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **bfd-liveness ipv4**
Description	BFD-enabled TLV for IPv4 to include on this IS-IS interface
Default	false
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **bfd-liveness**
Description	Enter the ipv6 context
Introduced	16.0.R1

include-bfd-tlv *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **bfd-liveness ipv6**
Description	BFD-enabled TLV for IPv4 to include on this IS-IS interface
Default	false
Introduced	16.0.R1

csnp-interval *number*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Time interval between successive CSN PDUs sent from interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

default-instance *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Allow non-MI capable router to establish an adjacency and operate with a router in non-zero instance
Default	false
Introduced	16.0.R1

hello-authentication *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Authenticate individual IS-IS protocol packets of Hello type
Default	true
Introduced	16.0.R1

hello-authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Authentication key or hash string for Hello PDUs
String Length	1 to 366
Introduced	16.0.R1

hello-authentication-keychain *string*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Authentication keychain to use for the session.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

hello-authentication-type *keyword*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Hello authentication type

Options password, message-digest

Introduced 16.0.R1

hello-padding *keyword*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Padding on IS-IS Hello packets

Options adaptive, loose, strict, none

Introduced 16.0.R1

interface-type *keyword*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Interface type to broadcast, point-to-point, or to be default

Options point-to-point, broadcast

Introduced 16.0.R1

ipv4-multicast *boolean*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Clear IPv4 multicast routing for interface

Default true

Introduced 16.0.R1

ipv6-unicast *boolean*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Clear IPv4 multicast routing for interface

Default true

Introduced 16.0.R1

level [level-number] *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Enter the level context
Max. Elements	2
Introduced	16.0.R1

[level-number] *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	IS-IS protocol level to which these attributes apply
Options	1, 2
Introduced	16.0.R1
Notes	This element is part of a list key

hello-authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Authentication or hash key string.
String Length	1 to 366
Introduced	16.0.R4

hello-authentication-keychain *string*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Authentication keychain to use for the session.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R4

hello-authentication-type *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*
Description	Hello-authentication-type to be enabled.
Options	password, message-digest
Introduced	16.0.R4

hello-interval *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Interval between Hello messages sent on this level

Range 1 to 20000

Default 9

Introduced 16.0.R1

hello-multiplier *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Hello messages missed from neighbor before router declares adjacency down

Range 2 to 100

Default 3

Introduced 16.0.R1

hello-padding *keyword*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Padding on IS-IS Hello packets

Options adaptive, loose, strict, none

Introduced 16.0.R1

ipv4-multicast-metric *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description IS-IS interface metric applied for IPv4 multicast

Range 1 to 16777215

Introduced 16.0.R1

ipv6-unicast-metric *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description IS-IS interface metric applied for for IPv6 unicast

Range 1 to 16777215

Introduced 16.0.R1

metric *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description IS-IS interface metric applied for for IPv4 unicast

Range 1 to 16777215

Introduced 16.0.R1

passive *boolean*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Passive interface

Default false

Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Router to become the designated router on a multi-access network

Range 0 to 127

Default 64

Introduced 16.0.R1

sd-offset *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Value of the signal degrade offset

Range 1 to 16777215

Introduced 16.0.R1

sf-offset *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **level** *keyword*

Description Value of the signal fail offset

Range 1 to 16777215

Introduced 16.0.R1

level-capability *keyword*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description IS-IS levels for this interface

Options 1, 2, 1/2

Introduced 16.0.R1

load-balancing-weight *number*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Load balancing weight

Introduced 16.0.R1

loopfree-alternate

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name*

Description Enter the loopfree-alternate context

Introduced 16.0.R3

exclude *boolean*

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **loopfree-alternate**

Description Enable/disable Loopfree Alternative at interface level.

Default false

Introduced 16.0.R3

policy-map

Context **configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **loopfree-alternate**

Description Enter the policy-map context

Introduced 16.0.R1

route-nh-template *string*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **loopfree-alternate policy-map**
Description	Route next hop policy template that is applied to interface
Reference	configure **routing-options route-next-hop-policy template** *string*
Introduced	16.0.R3
Notes	This element is mandatory

lsp-pacing-interval *number*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Interval for sending LSPs from interface
Range	0 to 65535
Default	100
Introduced	16.0.R1

mesh-group

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Enter the mesh-group context
Introduced	16.0.R1

blocked

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **mesh-group**
Description	Prevent the interface from flooding LSPs
Introduced	16.0.R1
Notes	This element is part of a choice

value *number*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name* **mesh-group**
Description	Mesh group for the interface
Range	1 to 2000000000
Introduced	16.0.R1
Notes	This element is part of a choice

passive *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Passive interface
Default	false
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Minimum time between LSP PDU retransmissions on point-to-point interface
Range	1 to 65535
Default	5
Units	seconds
Introduced	16.0.R1

tag *number*

Context	**configure service vprn** *service-name* **isis** *number* **interface** *interface-name*
Description	Route tag for IP address of interface
Range	1 to max
Introduced	16.0.R1

ipv4-multicast-routing *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	IS-IS topology for IPv4 multicast routing
Default	native
Options	false, native, mt
Introduced	16.0.R1

ipv4-routing *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Support IPv4 routing for IS-IS instance
Default	true
Introduced	16.0.R1

ipv6-routing *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Routing topology for IPv6
Default	false
Options	false, native, mt
Introduced	16.0.R1

level [level-number] *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the level context
Max. Elements	2
Introduced	16.0.R1

[level-number] *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	IS-IS protocol level to which these attributes apply
Options	1, 2
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-router-capability *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	Authentication or hash key string.
String Length	1 to 366
Introduced	16.0.R4

authentication-keychain *string*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description The keychain used to sign and/or authenticate.

Reference configure **system security keychains keychain** *string*

Introduced 16.0.R4

authentication-type *keyword*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Configure the authentication type to be used.

Options password, message-digest

Introduced 16.0.R4

csnp-authentication *boolean*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Enable/disable authentication on received ISIS protocol packets of type CSNP.

Default true

Introduced 16.0.R4

default-ipv4-multicast-metric *number*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Default metric for IPv4 unicast

Range 1 to 16777215

Default 10

Introduced 16.0.R1

default-ipv6-unicast-metric *number*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Default metric for IPv6 unicast

Range 1 to 16777215

Default 10

Introduced 16.0.R1

default-metric *number*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Default metric

Range 1 to 16777215

Default 10

Introduced 16.0.R1

external-preference *number*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description External route preference for IS-IS level

Range 1 to 255

Introduced 16.0.R1

hello-authentication *boolean*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Authenticate individual IS-IS protocol packets of Hello type

Default true

Introduced 16.0.R1

hello-padding *keyword*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Padding on IS-IS Hello packets

Options adaptive, loose, strict, none

Introduced 16.0.R1

loopfree-alternate-exclude *boolean*

Context **configure service vprn** *service-name* **isis** *number* **level** *keyword*

Description Exclude interface participating in specific IS-IS level in SPF LFA computation

Default false

Introduced 16.0.R1

lsp-mtu-size *number*

Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	LSP MTU size
Range	490 to 9190
Default	1492
Units	bytes
Introduced	16.0.R1

preference *number*

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	External route preference at level
Range	1 to 255
Introduced	16.0.R1

psnp-authentication *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	Enable/disable authentication on received ISIS protocol packets of type PSNP.
Default	true
Introduced	16.0.R4

wide-metrics-only *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **level** *keyword*
Description	Use wide metrics advertisements in the LSPs
Default	false
Introduced	16.0.R1

level-capability *keyword*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Routing level for instance
Options	1, 2, 1/2
Introduced	16.0.R1

link-group [link-group-name] *string*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the link-group context
Introduced	16.0.R1

[link-group-name] *string*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string*
Description	Link group name for the IS-IS protocol
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *very-long-description*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string*
Description	Text description
String Length	1 to 255
Introduced	16.0.R1

level [level-number] *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string*
Description	Enter the level context
Max. Elements	2
Introduced	16.0.R1

[level-number] *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	IS-IS protocol level to which these attributes apply
Options	1, 2
Introduced	16.0.R1
Notes	This element is part of a list key

ipv4-multicast-metric-offset *number*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv4 multicast address family
Range	1 to 16777215
Introduced	16.0.R1

ipv4-unicast-metric-offset *number*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv4 unicast address family
Range	1 to 16777215
Introduced	16.0.R1

ipv6-unicast-metric-offset *number*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	Offset value for the IPv6 unicast address family
Range	1 to 16777215
Introduced	16.0.R1

member [interface-name] *string*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	Enter the member context
Max. Elements	8
Introduced	16.0.R1

[interface-name] *string*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword* **member** *string*
Description	Router interface name for this link group
Reference	configure **service vprn** *service-name* **isis** *number* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

oper-members *number*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	Minimum number of operational links
Range	1 to 8
Introduced	16.0.R1

revert-members *number*

Context	**configure service vprn** *service-name* **isis** *number* **link-group** *string* **level** *keyword*
Description	Minimum number of operational links to return link group to normal state and remove offsets
Range	1 to 8
Introduced	16.0.R1

loopfree-alternate

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the loopfree-alternate context
Introduced	16.0.R1

exclude

Context	**configure service vprn** *service-name* **isis** *number* **loopfree-alternate**
Description	Enter the exclude context
Introduced	16.0.R3

prefix-policy *string*

Context	**configure service vprn** *service-name* **isis** *number* **loopfree-alternate exclude**
Description	Loopfree Alternative (LFA) exclude policies from which prefixes are excluded. Prefixes excluded from LFA this way will not be used in the LFA calculation, regardless of their priority.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is ordered by user

lsp-lifetime *number*

Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure service vprn** *service-name* **isis** *number*
Description	Amount of time during which an LSP is considered valid
Range	350 to 65535
Default	1200
Units	seconds
Introduced	16.0.R1

lsp-mtu-size *number*

Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure service vprn** *service-name* **isis** *number*
Description	LSP MTU size
Range	490 to 9190
Default	1492
Units	bytes
Introduced	16.0.R1

lsp-refresh

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the lsp-refresh context
Introduced	16.0.R1

half-lifetime *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **lsp-refresh**
Description	Set the refresh interval to always be half the LSP lifetime
Default	true
Introduced	16.0.R1

interval *number*

Context	**configure service vprn** *service-name* **isis** *number* **lsp-refresh**
Description	Refresh timer interval
Range	150 to 65535
Default	600
Units	seconds
Introduced	16.0.R1

multi-topology

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the multi-topology context
Introduced	16.0.R1

ipv4-multicast *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **multi-topology**
Description	Support IPv4 topology (MT3)
Default	false
Introduced	16.0.R1

ipv6-unicast *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **multi-topology**
Description	Support multi-topology TLVs
Default	false
Introduced	16.0.R1

multicast-import

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the multicast-import context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **multicast-import**
Description	Submit IPv4 routes into the multicast RPF of the RTM
Default	false
Introduced	16.0.R1

overload

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the overload context
Introduced	16.0.R1

max-metric *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **overload**
Description	Advertise transit links with maximum metric instead of setting overload bit
Default	false
Introduced	16.0.R1

overload-export-external *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Advertise the external routes when router is in overloaded
Default	false
Introduced	16.0.R1

overload-export-interlevel *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Advertise the inter-level routes when router is overloaded
Default	false
Introduced	16.0.R1

overload-on-boot

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the overload-on-boot context
Introduced	16.0.R1

max-metric *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **overload-on-boot**
Description	Advertise transit links with maximum metric instead of setting overload bit
Default	false
Introduced	16.0.R1

timeout *number*

Context	**configure service vprn** *service-name* **isis** *number* **overload-on-boot**
Description	Time during which the router operates in overload state after reboot
Range	60 to 1800
Units	seconds
Introduced	16.0.R1

poi-tlv *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Purge Originator Identification TLV
Default	false
Introduced	16.0.R1

prefix-attributes-tlv *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Use IS-IS Prefix Attributes TLV to exchange extended IPv4 and IPv6 reachability information
Default	false
Introduced	16.0.R1

prefix-limit

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the prefix-limit context
Introduced	16.0.R1

limit *number*

Context	**configure service vprn** *service-name* **isis** *number* **prefix-limit**
Description	Maximum number of prefixes for IS-IS instance
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

log-only *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **prefix-limit**
Description	Send warning message at specified threshold or when limit is reached, without going into overload
Default	false
Introduced	16.0.R1

overload-timeout (*number* | *keyword*)

Context	**configure service vprn** *service-name* **isis** *number* **prefix-limit**
Description	Time router remains in overload after prefix limit is exceeded before restarting
Default	forever
Introduced	16.0.R1

warning-threshold *number*

Context	**configure service vprn** *service-name* **isis** *number* **prefix-limit**
Description	Specifies the percentage of the value defined by prefix-limit, at which a warning log message and SNMP notification would be sent. This would only be a warning and additional prefixes will be learned up to 100% of prefix-limit. A value of 0 indicates that the threshold is disabled and no log message or SNMP notification will be sent.
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R1

psnp-authentication *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Authenticate individual IS-IS protocol packets of partial sequence number PDU (PSNP) type
Default	true
Introduced	16.0.R1

reference-bandwidth *number*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Reference bandwidth for bandwidth relative costing
Range	1 to 4000000000
Units	kilobps
Introduced	16.0.R1

rib-priority

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the rib-priority context
Introduced	16.0.R1

high

Context	**configure service vprn** *service-name* **isis** *number* **rib-priority**
Description	Enter the high context
Introduced	16.0.R1

prefix-list *string*

Context	**configure service vprn** *service-name* **isis** *number* **rib-priority high**
Description	List used to select routes processed at higher priority through OSPF route calculation process
Reference	configure **policy-options prefix-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

tag *number*

Context	**configure service vprn** *service-name* **isis** *number* **rib-priority high**
Description	Value that matches IS-IS routes processed at higher priority through route calculation process
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

router-id *router-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **isis** *number*
Description	Unique router ID for ISIS instance
Introduced	16.0.R1

standard-multi-instance *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enable RFC standards compliant multi-instance behavior
Default	false
Introduced	16.0.R1

strict-adjacency-check *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enable strict checking of address families for IS-IS adjacencies
Default	false
Introduced	16.0.R1

summary-address [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the summary-address context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **isis** *number* **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
Description	Summary IP prefix
Introduced	16.0.R1
Notes	This element is part of a list key

level-capability *keyword*

Context	**configure service vprn** *service-name* **isis** *number* **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
Description	IS-IS Level from which the prefix should be summarized
Options	1, 2, 1/2
Introduced	16.0.R1

route-tag *number*

Context	**configure service vprn** *service-name* **isis** *number* **summary-address** (*ipv4-prefix* | *ipv6-prefix*)
Description	Route tag assigned to the summary address
Range	1 to max
Introduced	16.0.R1

suppress-attached-bit *boolean*

Context	**configure service vprn** *service-name* **isis** *number*
Description	Allow IS-IS to suppress setting the attached bit on LSPs
Default	false
Introduced	16.0.R1

system-id *system-id*



Note: Modifying this element requires the parent element's **admin-state** to be toggled manually for the new value to take effect.

Context	**configure service vprn** *service-name* **isis** *number*
Description	System ID
String Length	14
Introduced	16.0.R1

timers

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the timers context
Introduced	16.0.R1

lsp-wait

Context	**configure service vprn** *service-name* **isis** *number* **timers**
Description	Enter the lsp-wait context
Introduced	16.0.R1

lsp-initial-wait *number*

Context	**configure service vprn** *service-name* **isis** *number* **timers lsp-wait**
Description	Initial LSP generation delay
Range	10 to 100000
Default	10
Units	milliseconds
Introduced	16.0.R1

lsp-max-wait *number*

Context	**configure service vprn** *service-name* **isis** *number* **timers lsp-wait**
Description	Maximum time between two consecutive occurrences of LSP generation
Range	10 to 120000
Default	5000
Units	milliseconds
Introduced	16.0.R1

lsp-second-wait *number*

Context	**configure service vprn** *service-name* **isis** *number* **timers lsp-wait**
Description	Delay between first and second LSP generation
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-wait

Context	**configure service vprn** *service-name* **isis** *number* **timers**
Description	Enter the spf-wait context
Introduced	16.0.R1

spf-initial-wait *number*

Context	**configure service vprn** *service-name* **isis** *number* **timers spf-wait**
Description	Initial SPF calculation delay after topology change
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-max-wait *number*

Context	**configure service vprn** *service-name* **isis** *number* **timers spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	10 to 120000
Default	10000
Units	milliseconds
Introduced	16.0.R1

spf-second-wait *number*

Context	**configure service vprn** *service-name* **isis** *number* **timers spf-wait**
Description	Hold time between first and second SPF calculations
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

unicast-import

Context	**configure service vprn** *service-name* **isis** *number*
Description	Enter the unicast-import context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **unicast-import**
Description	Submit IPv4 routes into unicast RTM
Default	true
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure service vprn** *service-name* **isis** *number* **unicast-import**
Description	Submit IPv6 routes into unicast RTM
Default	true
Introduced	16.0.R1

l2tp

Context **configure service vprn** *service-name*
Description Enter the l2tp context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **l2tp**
Description Administrative state of L2TP
Default disable
Options enable, disable
Introduced 16.0.R1

avp-hiding *keyword*

Context **configure service vprn** *service-name* **l2tp**
Description Attribute of the Value Pair (AVP) hiding algorithm
Options sensitive, always
Introduced 16.0.R1

challenge *boolean*

Context **configure service vprn** *service-name* **l2tp**
Description Use challenge-response authentication
Default false
Introduced 16.0.R1

destruct-timeout *number*

Context **configure service vprn** *service-name* **l2tp**
Description Destruction timeout
Range 60 to 86400
Introduced 16.0.R1

ethernet-tunnel

Context **configure service vprn** *service-name* **l2tp**

Description Enter the ethernet-tunnel context

Introduced 16.0.R4

reconnect-timeout (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp ethernet-tunnel**

Description Timeout for a session setup retry

Introduced 16.0.R4

exclude-avps

Context **configure service vprn** *service-name* **l2tp**

Description Enter the exclude-avps context

Introduced 16.0.R1

calling-number *boolean*

Context **configure service vprn** *service-name* **l2tp exclude-avps**

Description Calling Number AVP to exclude

Default false

Introduced 16.0.R1

initial-rx-lcp-conf-req *boolean*

Context **configure service vprn** *service-name* **l2tp exclude-avps**

Description Initial Received LCP ConfReq AVP to exclude

Default false

Introduced 16.0.R1

failover

Context **configure service vprn** *service-name* **l2tp**

Description Enter the failover context

Introduced 16.0.R1

recovery-max-session-lifetime *number*

Context	**configure service vprn** *service-name* **l2tp failover**
Description	Subset of sessions that this system attempts to synchronize in the Session State Synchronization phase
Range	2 to 4294967295
Default	2
Units	centiseconds
Introduced	16.0.R1

recovery-method *keyword*

Context	**configure service vprn** *service-name* **l2tp failover**
Description	Recovery method of the sequence numbers after failover
Options	mcs, recovery-tunnel
Introduced	16.0.R1

recovery-time *number*

Context	**configure service vprn** *service-name* **l2tp failover**
Description	Time requested from the L2TP peer before assuming failover as failed
Range	0 to 900
Introduced	16.0.R1

track-srrp [id] *number*

Context	**configure service vprn** *service-name* **l2tp failover**
Description	Enter the track-srrp context
Introduced	16.0.R1

[id] *number*

Context	**configure service vprn** *service-name* **l2tp failover track-srrp** *number*
Description	SRRP instance ID that this interface route needs to track
Introduced	16.0.R1
Notes	This element is part of a list key

peer *string*

Context	**configure service vprn** *service-name* **l2tp failover track-srrp** *number*
Description	Multi-chassis peer address
Reference	configure **redundancy multi-chassis peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Introduced	16.0.R1
Notes	This element is mandatory

sync-tag *string*

Context	**configure service vprn** *service-name* **l2tp failover track-srrp** *number*
Description	Synchronization tag on the multi-chassis peer
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

group [tunnel-group-name] *string*

Context	**configure service vprn** *service-name* **l2tp**
Description	Enter the group context
Introduced	16.0.R1

[tunnel-group-name] *string*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Tunnel group name
String Length	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Administrative state of the L2TP tunnel group
Default	disable
Options	enable, disable
Introduced	16.0.R1

avp-hiding *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	The AVP hiding algorithm
Options	never, sensitive, always
Introduced	16.0.R4

challenge *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Enable/disable the use of challenge-response authentication.
Options	false, true
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destruct-timeout *number*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Destruction timeout
Range	60 to 86400
Introduced	16.0.R1

ethernet-tunnel

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Enter the ethernet-tunnel context
Introduced	16.0.R4

reconnect-timeout (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **ethernet-tunnel**
Description Timeout for a session setup retry at group level
Introduced 16.0.R4

failover

Context **configure service vprn** *service-name* **l2tp group** *string*
Description Enter the failover context
Introduced 16.0.R1

recovery-method *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **failover**
Description Recovery method of the sequence numbers after failover
Options mcs, recovery-tunnel
Introduced 16.0.R1

recovery-time *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **failover**
Description Time requested from the L2TP peer before assuming failover as failed
Range 0 to 900
Introduced 16.0.R1

hello-interval (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string*
Description Hello interval
Introduced 16.0.R1

idle-timeout (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string*
Description Idle timeout
Introduced 16.0.R1

l2tpv3

Context **configure service vprn** *service-name* **l2tp group** *string*

Description Enter the l2tpv3 context

Introduced 16.0.R1

cookie-length (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description Cookie field length

Introduced 16.0.R1

digest-type *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description Hashing algorithm that calculates the message digest

Options none, md5, sha1

Introduced 16.0.R1

nonce-length *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description Length for the local L2TPv3 nonce (random number)

Range 0 | 16 to 64

Introduced 16.0.R1

password *encrypted-leaf*

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description L2TPv3 password

String Length 1 to 114

Introduced 16.0.R1

private-tcp-mss-adjust (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description TCP maximum segment size (MSS) on private network

Introduced 16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description TCP Maximum Segment Size (MSS) on public network

Introduced 16.0.R1

pw-cap-list

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description Enter the pw-cap-list context

Introduced 16.0.R1

ethernet *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3 pw-cap-list**

Description Advertise Ethernet pseudowire type

Default false

Introduced 16.0.R1

ethernet-vlan *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3 pw-cap-list**

Description Advertise Ethernet VLAN pseudowire type

Default false

Introduced 16.0.R1

rem-router-id *ipv4-address*

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**

Description Filter on remote router ID

Default 0.0.0.0

Introduced 16.0.R1

track-password-change *boolean*

Context **configure service vprn** *service-name* **l2tp group** *string* **l2tpv3**
Description Enable tracking of password changes
Default false
Introduced 16.0.R1

lac

Context **configure service vprn** *service-name* **l2tp group** *string*
Description Enter the lac context
Introduced 16.0.R1

df-bit *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **lac**
Description DF (do not fragment) bit in data traffic transmitted as LAC
Options false, true
Introduced 16.0.R1

lns

Context **configure service vprn** *service-name* **l2tp group** *string*
Description Enter the lns context
Introduced 16.0.R1

lns-group *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns**
Description ISA LNS group
Reference configure **isa lns-group** *number*
Introduced 16.0.R1

load-balance-method *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns**
Description New sessions for L2TP ISA MDA
Default per-session
Options per-session, per-tunnel
Introduced 16.0.R1

mlppp

Context **configure service vprn** *service-name* **l2tp group** *string* **lns**
Description Enter the mlppp context
Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description Administrative state of MLPPP in this L2TP tunnel group
Default disable
Options enable, disable
Introduced 16.0.R1

endpoint

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description Enter the endpoint context
Introduced 16.0.R1

ip (*string* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp endpoint**
Description Endpoint ID as an IP address
Introduced 16.0.R1
Notes This element is part of a choice

mac (*string* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp endpoint**
Description Endpoint ID as a MAC address
Introduced 16.0.R1
Notes This element is part of a choice

interleave *boolean*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description Enable link fragmentation and interleaving
Default false
Introduced 16.0.R1

max-fragment-delay (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description Maximum fragment delay caused by transmission on a link
Default no-fragmentation
Introduced 16.0.R1

max-links *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description Maximum MLPPP links
Range 1 to 8
Default 1
Introduced 16.0.R1

reassembly-timeout *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description Reassembly timeout
Range 100 | 1000
Default 1000
Introduced 16.0.R1

short-sequence-numbers *boolean*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns mlppp**
Description	Request a peer to send short sequence numbers
Default	false
Introduced	16.0.R1

ppp

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns**
Description	Enter the ppp context
Introduced	16.0.R1

authentication *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description	PPP authentication protocol to negotiate
Default	pref-chap
Options	pap, chap, pref-chap, pref-pap
Introduced	16.0.R1

authentication-policy *string*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description	Authentication policy when a DHCP message is received
String Length	1 to 32
Introduced	16.0.R1

chap-challenge-length

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description	Enter the chap-challenge-length context
Introduced	16.0.R1

end *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp chap-challenge-length**
Description Maximum PPP CHAP challenge length
Range 8 to 64
Default 64
Introduced 16.0.R1

start *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp chap-challenge-length**
Description Minimum PPP CHAP challenge length
Range 8 to 64
Default 32
Introduced 16.0.R1

default-group-interface

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description Enter the default-group-interface context
Introduced 16.0.R1

interface *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp default-group-interface**
Description Group interface
String Length 1 to 32
Introduced 16.0.R1

service-name *service-name*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp default-group-interface**
Description Service name
String Length 1 to 64
Introduced 16.0.R1

ipcp-subnet-negotiation *boolean*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description	Allow IPCP subnet negotiation for PPPoE hosts
Default	false
Introduced	16.0.R1

keepalive

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description	Enter the keepalive context
Introduced	16.0.R1

interval *number*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp keepalive**
Description	PPP keepalive interval
Range	10 to 300
Default	30
Introduced	16.0.R1

multiplier *number*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp keepalive**
Description	PPP keepalive multiplier
Range	1 to 5
Default	3
Introduced	16.0.R1

lcp-force-ack-accm *boolean*

Context	**configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description	Force acknowledgement of the LCP Asynchronous Control Character Map (ACCM) option
Default	false
Introduced	16.0.R1

lcp-ignore-magic-numbers *boolean*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description Check Magic-Number field in LCP Echo-Request and LCP Echo-Reply messages
Default false
Introduced 16.0.R1

mtu *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description Maximum PPP MTU size
Range 512 to 9212
Default 1500
Introduced 16.0.R1

proxy-authentication *boolean*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description Use authentication AVPs that are received from LAC
Default false
Introduced 16.0.R1

proxy-lcp *boolean*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description Proxy LCP AVPs that are received from LAC
Default false
Introduced 16.0.R1

user-db *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **lns ppp**
Description Local user database for PPP PAP and CHAP authentication
String Length 1 to 32
Introduced 16.0.R1

local-address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Local address
Introduced	16.0.R1

local-name *host-name*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	The local host name.
String Length	1 to 64
Introduced	16.0.R4

max-retries-estab *number*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Maximum retries for established tunnels
Range	2 to 7
Introduced	16.0.R1

max-retries-not-estab *number*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Maximum retries for unestablished tunnels
Range	2 to 7
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	The password.
String Length	1 to 114
Introduced	16.0.R4

protocol *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Protocol version
Options	v2, v3, v3draft
Introduced	16.0.R1

radius-accounting-policy *string*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	RADIUS accounting policy
Reference	configure **aaa radius l2tp-accounting-policy** *string*
Introduced	16.0.R1

receive-window-size *number*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	L2TP receive window size
Range	4 to 1024
Introduced	16.0.R1

session-assign-method *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Session assignment method
Options	existing-first, weighted, weighted-random
Introduced	16.0.R1

session-limit (*number* | *keyword*)

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Session limit
Introduced	16.0.R1

tunnel [tunnel-name] *string*

Context	**configure service vprn** *service-name* **l2tp group** *string*
Description	Enter the tunnel context
Max. Elements	31
Introduced	16.0.R1

[tunnel-name] *string*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description	Tunnel name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description	Administrative state of the L2TP tunnel
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-establish *boolean*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description	Allow the tunnel to be automatically set up by the system
Default	false
Introduced	16.0.R1

avp-hiding *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description	The AVP hiding algorithm
Options	never, sensitive, always
Introduced	16.0.R4

challenge *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Enable/disable the use of challenge-response authentication.

Options false, true

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

destruct-timeout *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Destruction timeout

Range 60 to 86400

Introduced 16.0.R1

failover

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Enter the failover context

Introduced 16.0.R1

recovery-method *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **failover**

Description Recovery method of the sequence numbers after failover

Options mcs, recovery-tunnel

Introduced 16.0.R1

recovery-time *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **failover**
Description Time requested from the L2TP peer before assuming failover as failed
Range 0 to 900
Introduced 16.0.R1

hello-interval (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description Hello interval
Introduced 16.0.R1

idle-timeout (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description Idle timeout
Introduced 16.0.R1

l2tpv3

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*
Description Enter the l2tpv3 context
Introduced 16.0.R1

private-tcp-mss-adjust (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **l2tpv3**
Description TCP maximum segment size (MSS) on private network
Introduced 16.0.R1

public-tcp-mss-adjust (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **l2tpv3**
Description TCP maximum segment size (MSS) on public network
Introduced 16.0.R1

lac

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Enter the lac context

Introduced 16.0.R1

df-bit *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lac**

Description DF (do not fragment) bit in data traffic transmitted as LAC

Options false, true

Introduced 16.0.R1

lns

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Enter the lns context

Introduced 16.0.R1

lns-group *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns**

Description ISA LNS group

Reference configure **isa lns-group** *number*

Introduced 16.0.R1

load-balance-method *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns**

Description New sessions for L2TP ISA MDA

Options per-session, per-tunnel

Introduced 16.0.R1

mlppp

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns**

Description Enter the mlppp context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Administrative state of MLPPP in the L2TP tunnel

Options enable, disable

Introduced 16.0.R1

endpoint

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Enter the endpoint context

Introduced 16.0.R1

ip (*string* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp endpoint**

Description Endpoint ID as an IP address

Introduced 16.0.R1

Notes This element is part of a choice

mac (*string* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp endpoint**

Description Endpoint ID as a MAC address

Introduced 16.0.R1

Notes This element is part of a choice

interleave *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Use of Link fragmentation and interleaving

Options false, true

Introduced 16.0.R1

max-fragment-delay *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Maximum fragment delay caused by transmission on a link

Range 5 to 1000

Introduced 16.0.R1

max-links *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Maximum MLPPP links

Range 1 to 8

Introduced 16.0.R1

reassembly-timeout *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Reassembly timeout

Range 100 | 1000

Introduced 16.0.R1

short-sequence-numbers *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns mlppp**

Description Request a peer to send short sequence numbers

Options false, true

Introduced 16.0.R1

ppp

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns**

Description Enter the ppp context

Introduced 16.0.R1

authentication *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	PPP authentication protocol to negotiate
Options	pap, chap, pref-chap, pref-pap
Introduced	16.0.R1

authentication-policy *string*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Authentication policy when a DHCP message is received
String Length	1 to 32
Introduced	16.0.R1

chap-challenge-length

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Enter the chap-challenge-length context
Introduced	16.0.R1

end *number*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp chap-challenge-length**
Description	Minimum PPP CHAP challenge length
Range	8 to 64
Introduced	16.0.R1

start *number*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp chap-challenge-length**
Description	Minimum PPP CHAP challenge length
Range	8 to 64
Introduced	16.0.R1

default-group-interface

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Enter the default-group-interface context
Introduced	16.0.R1

interface *string*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp default-group-interface**
Description	Group interface
String Length	1 to 32
Introduced	16.0.R1

service-name *service-name*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp default-group-interface**
Description	Service name
String Length	1 to 64
Introduced	16.0.R1

ipcp-subnet-negotiation *keyword*

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Use of IPCP subnet negotiation for PPPoE hosts
Options	false, true
Introduced	16.0.R1

keepalive

Context	**configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**
Description	Enter the keepalive context
Introduced	16.0.R1

interval *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp keepalive**

Description PPP keepalive interval

Range 10 to 300

Introduced 16.0.R1

multiplier *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp keepalive**

Description PPP keepalive multiplier

Range 1 to 5

Introduced 16.0.R1

lcp-force-ack-accm *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Forced acknowledgement of the LCP Asynchronous Control Character Map (ACCM) option

Options false, true

Introduced 16.0.R1

lcp-ignore-magic-numbers *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Magic-Number field in LCP Echo-Request and LCP Echo-Reply messages that are checked

Options false, true

Introduced 16.0.R1

mtu *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Maximum PPP MTU size

Range 512 to 9212

Introduced 16.0.R1

proxy-authentication *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Authentication AVPs that are received from LAC

Options false, true

Introduced 16.0.R1

proxy-lcp *keyword*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Use the Proxy LCP AVPs that are received from the LAC

Options false, true

Introduced 16.0.R1

user-db *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string* **lns ppp**

Description Local user database for PPP PAP and CHAP authentication

String Length 1 to 32

Introduced 16.0.R1

local-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Local address

Introduced 16.0.R1

local-name *host-name*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description The local host name.

String Length 1 to 64

Introduced 16.0.R4

max-retries-estab *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Maximum retries for established tunnels

Range 2 to 7

Introduced 16.0.R1

max-retries-not-estab *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Maximum retries for unestablished tunnels

Range 2 to 7

Introduced 16.0.R1

password *encrypted-leaf*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description The password.

String Length 1 to 114

Introduced 16.0.R4

peer *ipv4-unicast-address*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Peer address

Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Tunnel preference number with its group

Range 0 to 16777215

Default 50

Introduced 16.0.R1

radius-accounting-policy *string*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description RADIUS accounting policy

Reference configure **aaa radius l2tp-accounting-policy** *string*

Introduced 16.0.R1

receive-window-size *number*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description L2TP receive window size

Range 4 to 1024

Introduced 16.0.R1

remote-name *host-name*

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description Remote host name for tunnel

String Length 1 to 64

Introduced 16.0.R1

session-limit (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp group** *string* **tunnel** *string*

Description L2TP session limit for each tunnel of this router

Introduced 16.0.R1

group-session-limit *number*

Context **configure service vprn** *service-name* **l2tp**

Description L2TP session limit for each group of this router

Range 1 to 250000

Introduced 16.0.R1

hello-interval (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp**

Description Hello interval

Introduced 16.0.R1

idle-timeout (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp**

Description Idle timeout

Introduced 16.0.R1

ignore-avps

Context **configure service vprn** *service-name* **l2tp**

Description Enter the ignore-avps context

Introduced 16.0.R1

sequencing-required *boolean*

Context **configure service vprn** *service-name* **l2tp ignore-avps**

Description Ignore Sequencing Required AVP

Default false

Introduced 16.0.R1

l2tpv3

Context **configure service vprn** *service-name* **l2tp**

Description Enter the l2tpv3 context

Introduced 16.0.R1

cookie-length *number*

Context **configure service vprn** *service-name* **l2tp l2tpv3**

Description Cookie field length

Range 4 | 8

Introduced 16.0.R1

digest-type *keyword*

Context	**configure service vprn** *service-name* **l2tp l2tpv3**
Description	Hashing algorithm that calculates the message digest
Options	md5, sha1
Introduced	16.0.R1

nonce-length *number*

Context	**configure service vprn** *service-name* **l2tp l2tpv3**
Description	Length of the local L2TPv3 nonce (random number)
Range	0 | 16 to 64
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure service vprn** *service-name* **l2tp l2tpv3**
Description	L2TPv3 password
String Length	1 to 114
Introduced	16.0.R1

private-tcp-mss-adjust *number*

Context	**configure service vprn** *service-name* **l2tp l2tpv3**
Description	TCP maximum segment size (MSS) on private network
Range	512 to 9000
Introduced	16.0.R1

public-tcp-mss-adjust *number*

Context	**configure service vprn** *service-name* **l2tp l2tpv3**
Description	TCP maximum segment size (MSS) on public network
Range	512 to 9000
Introduced	16.0.R1

transport-type

Context **configure service vprn** *service-name* **l2tp l2tpv3**

Description Enter the transport-type context

Introduced 16.0.R1

ip *boolean*

Context **configure service vprn** *service-name* **l2tp l2tpv3 transport-type**

Description Transport type that carries L2TPv3 tunnel

Default false

Introduced 16.0.R1

lac

Context **configure service vprn** *service-name* **l2tp**

Description Enter the lac context

Introduced 16.0.R1

calling-number-format *ascii-specification*

Context **configure service vprn** *service-name* **l2tp lac**

Description Calling Number AVP for L2TP control messages

String Length 1 to 255

Default %S %s

Introduced 16.0.R1

cisco-nas-port

Context **configure service vprn** *service-name* **l2tp lac**

Description Enter the cisco-nas-port context

Introduced 16.0.R1

ethernet *binary-specification*

Context **configure service vprn** *service-name* **l2tp lac cisco-nas-port**

Description L2TP Cisco NAS port AVP with binary patterns for Ethernet

String Length 1 to 255

Introduced 16.0.R1

df-bit *boolean*

Context **configure service vprn** *service-name* **l2tp lac**

Description Send all L2TP packets with DF bit set to 1

Default true

Introduced 16.0.R1

local-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **l2tp**

Description Local address

Introduced 16.0.R1

local-name *host-name*

Context **configure service vprn** *service-name* **l2tp**

Description Local host name

String Length 1 to 64

Introduced 16.0.R1

max-retries-estab *number*

Context **configure service vprn** *service-name* **l2tp**

Description Maximum retries for established tunnels

Range 2 to 7

Introduced 16.0.R1

max-retries-not-estab *number*

Context	**configure service vprn** *service-name* **l2tp**
Description	Maximum retries for unestablished tunnels
Range	2 to 7
Introduced	16.0.R1

next-attempt *keyword*

Context	**configure service vprn** *service-name* **l2tp**
Description	Tunnel that is selected when previous session setup failed
Default	next-preference-level
Options	same-preference-level, next-preference-level
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure service vprn** *service-name* **l2tp**
Description	L2TP password
String Length	1 to 114
Introduced	16.0.R1

peer-address-change-policy *keyword*

Context	**configure service vprn** *service-name* **l2tp**
Description	Reaction when a L2TP response is received from a different address
Options	accept, ignore, reject
Introduced	16.0.R1

radius-accounting-policy *string*

Context	**configure service vprn** *service-name* **l2tp**
Description	RADIUS accounting policy
Reference	configure **aaa radius l2tp-accounting-policy** *string*
Introduced	16.0.R1

receive-window-size *number*

Context **configure service vprn** *service-name* **l2tp**

Description L2TP receive window size

Range 4 to 1024

Introduced 16.0.R1

replace-result-code

Context **configure service vprn** *service-name* **l2tp**

Description Enter the replace-result-code context

Introduced 16.0.R1

cdn-invalid-dst *boolean*

Context **configure service vprn** *service-name* **l2tp replace-result-code**

Description Enable/disable replacing result code 'Invalid destination' by result code 'General error' and general error code 'Insufficient resources to handle this operation now'.

Default false

Introduced 16.0.R4

cdn-permanent-no-facilities *boolean*

Context **configure service vprn** *service-name* **l2tp replace-result-code**

Description Enable/disable replacing result code 'Call failed due to lack of appropriate facilities being available (permanent condition)"Invalid destination' by result code 'General error' and general error code 'Insufficient resources to handle this operation now'.

Default false

Introduced 16.0.R4

cdn-temporary-no-facilities *boolean*

Context **configure service vprn** *service-name* **l2tp replace-result-code**

Description Enable/disable replacing result code 'Call failed due to lack of appropriate facilities being available (temporary condition)' by result code 'General error' and general error code 'Insufficient resources to handle this operation now'.

Default false

Introduced 16.0.R4

rtm-debounce-time (*number* | *keyword*)

Context **configure service vprn** *service-name* **l2tp**

Description Debounce timer that declares L2TP action for route table management events

Introduced 16.0.R1

session-assign-method *keyword*

Context **configure service vprn** *service-name* **l2tp**

Description Session assignment method

Options existing-first, weighted, weighted-random

Introduced 16.0.R1

session-limit *number*

Context **configure service vprn** *service-name* **l2tp**

Description L2TP session limit of this router

Range 1 to 250000

Introduced 16.0.R1

tunnel-selection-blacklist

Context **configure service vprn** *service-name* **l2tp**

Description Enter the tunnel-selection-blacklist context

Introduced 16.0.R1

add-tunnel-on

Context **configure service vprn** *service-name* **l2tp tunnel-selection-blacklist**

Description Enter the add-tunnel-on context

Introduced 16.0.R1

address-change-timeout *boolean*

Context **configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**

Description Add to the blacklist in case of an address change timeout.

Default false

Introduced 16.0.R4

cdn-err-code *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if a CDN is received with code: General error
Default	false
Introduced	16.0.R1

cdn-invalid-dst *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case a CDN is received with result code 'Invalid destination'.
Default	false
Introduced	16.0.R4

cdn-permanent-no-facilities *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case a CDN is received with result code 'Call failed due to lack of appropriate facilities being available (permanent condition)'.
Default	false
Introduced	16.0.R4

cdn-temporary-no-facilities *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to the blacklist in case a CDN is received with result code 'Call failed due to lack of appropriate facilities being available (temporary condition)'.
Default	false
Introduced	16.0.R4

stop-ccn-err-code *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if a StopCNN is received with code: General error
Default	false
Introduced	16.0.R1

stop-ccn-other *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if a StopCNN is received with code: other than general error
Default	false
Introduced	16.0.R1

tx-cdn-not-established-in-time *boolean*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist add-tunnel-on**
Description	Add to blacklist if CDN transmitted with code: Call not established within time allotted by LAC
Default	false
Introduced	16.0.R1

max-list-length (*number* | *keyword*)

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist**
Description	Tunnels or peers in the blacklist
Range	1 to 65535
Default	infinite
Units	minutes
Options	infinite
Introduced	16.0.R1

max-time *number*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist**
Description	Maximum time that a tunnel or peer can remain in the tunnel selection blacklist
Range	1 to 60
Default	5
Units	minutes
Introduced	16.0.R1

timeout-action *keyword*

Context	**configure service vprn** *service-name* **l2tp tunnel-selection-blacklist**
Description	Action when a tunnel or peer remained in the blacklist for maximum time
Default	remove-from-blacklist
Options	remove-from-blacklist, try-one-session
Introduced	16.0.R1

tunnel-session-limit *number*

Context	**configure service vprn** *service-name* **l2tp**
Description	L2TP session limit for each tunnel of this router
Range	1 to 65534
Introduced	16.0.R1

label-mode *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name*
Description	Allocation mode for VPRN service labels
Default	vrf
Options	vrf, next-hop
Introduced	16.0.R1

log

Context	**configure service vprn** *service-name*
Description	Enter the log context
Introduced	16.0.R1

filter [filter-id] *number*

Context	**configure service vprn** *service-name* **log**
Description	Enter the filter context
Introduced	16.0.R1

[filter-id] *number*

Context	**configure service vprn** *service-name* **log filter** *number*
Description	Identification number for an event log filter
Range	1 to 1500
Introduced	16.0.R1
Notes	This element is part of a list key

default-action *keyword*

Context	**configure service vprn** *service-name* **log filter** *number*
Description	Default action for the event filter
Default	forward
Options	drop, forward
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **log filter** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure service vprn** *service-name* **log filter** *number*
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure service vprn** *service-name* **log filter** *number* **entry** *number*
Description	Identification number for an event log filter parameter
Range	1 to 999
Introduced	16.0.R1
Notes	This element is part of a list key

action *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number*

Description Action for this event filter entry

Options drop, forward

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number*

Description Enter the match context

Introduced 16.0.R1

application

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match**

Description Enter the application context

Introduced 16.0.R1

eq *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match application**

Description Application to match

Options application-assurance, aps, atm, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igh, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, ppp, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, ripng, openflow, sflow, rpki, gmpls, lmp, calltrace, satellite, ldap, pppoe-clnt, adp, mgmt-core, macsec, pcap, mobile-gateway, mobile-pdn, mobile-pdn-cups, mobile-profile, mobile-profile-cups, mobile-serving, auto-prov

Introduced 16.0.R1

Notes This element is part of a choice

neq *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match application**

Description Application to be filtered out

Options application-assurance, aps, atm, bgp, cflowd, chassis, debug, dhcp, dhcps, diameter, efm-oam, elmi, ering, eth-cfm, etun, filter, gsmp, igh, igmp, igmp-snooping, ip, ipsec, isis, l2tp, lag, ldp, li, lldp, logger, mcpath, mc-redundancy, mirror, mld, mld-snooping, mpls, msdp, nat, ntp, oam, ospf, pim, pim-snooping, port, ppp, pppoe, ptp, rip, route-policy, rsvp, security, snmp, stp, svcmgr, system, user, video, vrrp, vrtr, radius, wpp, wlan-gw, dynsvc, mpls-tp, bfd, ripng, openflow, sflow, rpki, gmpls, lmp, calltrace, satellite, ldap, pppoe-clnt, adp, mgmt-core, macsec, pcap, mobile-gateway, mobile-pdn, mobile-pdn-cups, mobile-profile, mobile-profile-cups, mobile-serving, auto-prov

Introduced 16.0.R1

Notes This element is part of a choice

event

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match**

Description Enter the event context

Introduced 16.0.R1

eq *number*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match event**

Description Log event message to match

Range 1 to max

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match event**

Description Number of the log event to match

Range 1 to max

Introduced 16.0.R1

Notes This element is part of a choice

gte *number*

Context	**configure service vprn** *service-name* **log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

lt *number*

Context	**configure service vprn** *service-name* **log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

lte *number*

Context	**configure service vprn** *service-name* **log filter** *number* **entry** *number* **match event**
Description	Number of the log event to match
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

neq *number*

Context	**configure service vprn** *service-name* **log filter** *number* **entry** *number* **match event**
Description	Log event message to filter out
Range	1 to max
Introduced	16.0.R1
Notes	This element is part of a choice

message

Context	**configure service vprn** *service-name* **log filter** *number* **entry** *number* **match**
Description	Enter the message context
Introduced	16.0.R1

eq *string*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match message**
Description Log event message to match
String Length 1 to 400
Introduced 16.0.R1
Notes This element is part of a choice

neq *string*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match message**
Description Log event message to be filtered out
String Length 1 to 400
Introduced 16.0.R1
Notes This element is part of a choice

regexp *boolean*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match message**
Description String comparison to determine if the log event matches the value of pattern
Default false
Introduced 16.0.R1

severity

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match**
Description Enter the severity context
Introduced 16.0.R1

eq *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match severity**
Description Log event severity level to match
Options cleared, indeterminate, critical, major, minor, warning
Introduced 16.0.R1
Notes This element is part of a choice

gt *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match severity**

Description Log event severity level

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

Notes This element is part of a choice

gte *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match severity**

Description Log event severity level

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

Notes This element is part of a choice

lt *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match severity**

Description Log event severity level

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

Notes This element is part of a choice

lte *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match severity**

Description Log event severity level

Options cleared, indeterminate, critical, major, minor, warning

Introduced 16.0.R1

Notes This element is part of a choice

neq *keyword*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match severity**
Description Log event severity level to filter out
Options cleared, indeterminate, critical, major, minor, warning
Introduced 16.0.R1
Notes This element is part of a choice

subject

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match**
Description Enter the subject context
Introduced 16.0.R1

eq *string*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match subject**
Description Log event subject string to match
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a choice

neq *string*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match subject**
Description Log event subject string to filter out
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a choice

regexp *boolean*

Context **configure service vprn** *service-name* **log filter** *number* **entry** *number* **match subject**
Description String comparison to determine if the log event matches the value of subject
Default false
Introduced 16.0.R1

log-id [id] *number*

Context	**configure service vprn** *service-name* **log**
Description	Enter the log-id context
Max. Elements	30
Introduced	16.0.R1

[id] *number*

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	The value of id uniquely identifies an event stream log.
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Administrative state of the log
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Enter the destination context
Introduced	16.0.R1

netconf

Context **configure service vprn** *service-name* **log log-id** *number* **destination**

Description Enter the **netconf** context

Introduced 16.0.R1

max-entries *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vprn** *service-name* **log log-id** *number* **destination netconf**

Description Number of events stored in this netconf log.

Range 50 to 3000

Default 100

Introduced 16.0.R1

Notes This element is part of a choice

snmp

Context **configure service vprn** *service-name* **log log-id** *number* **destination**

Description Enter the **snmp** context

Introduced 16.0.R1

max-entries *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vprn** *service-name* **log log-id** *number* **destination snmp**

Description Number of events stored in this snmp log.

Range 50 to 3000

Default 100

Introduced 16.0.R1

Notes This element is part of a choice

syslog *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **log log-id** *number* **destination**
Description	Index with the information to format event messages sent to a specific SYSLOG collector
Reference	configure **service vprn** *service-name* **log syslog** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

filter *string*

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Filter for this log's source event stream to limit the event output in this log destination
Reference	configure **service vprn** *service-name* **log filter** *number*
Introduced	16.0.R1

netconf-stream *string*

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Destination NETCONF stream name
String Length	1 to 32
Introduced	16.0.R1

python-policy *string*

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Python policy name
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

source

Context	**configure service vprn** *service-name* **log log-id** *number*
Description	Enter the source context
Introduced	16.0.R1

change *boolean*

Context **configure service vprn** *service-name* **log log-id** *number* **source**
Description Source event streams change of log events
Default false
Introduced 16.0.R1

main *boolean*

Context **configure service vprn** *service-name* **log log-id** *number* **source**
Description Source event streams main of log events
Default false
Introduced 16.0.R1

time-format *keyword*

Context **configure service vprn** *service-name* **log log-id** *number*
Description Timestamp format for events sent to logs which have a value of either syslog, or file
Default utc
Options utc, local
Introduced 16.0.R1

snmp-trap-group [log-id] *number*

Context **configure service vprn** *service-name* **log**
Description Enter the snmp-trap-group context
Introduced 16.0.R1

[log-id] *number*

Context **configure service vprn** *service-name* **log snmp-trap-group** *number*
Description SNMP notification group associated with the event log
Range 1 to 100
Introduced 16.0.R1
Notes This element is part of a list key

description *string*

Context **configure service vprn** *service-name* **log snmp-trap-group** *number*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

trap-target [name] *string*

Context **configure service vprn** *service-name* **log snmp-trap-group** *number*
Description Enter the trap-target context
Max. Elements 25
Introduced 16.0.R1

[name] *string*

Context **configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description Name for an SNMP notification destination within the SNMP notification group
String Length 1 to 28
Introduced 16.0.R1
Notes This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description IP address attribute for the trap target
Introduced 16.0.R1
Notes This element is mandatory

description *string*

Context **configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

notify-community *string*

Context	**configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description	SNMPv1 or SNMPv2c community name string, or SNMPv3 security name, for sending a notification
String Length	1 to 31
Introduced	16.0.R1
Notes	This element is mandatory

port *number*

Context	**configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description	UDP port number to send messages to this remote SNMP notification collector
Range	0 | 1 to 65535
Default	162
Introduced	16.0.R1

replay *boolean*

Context	**configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description	Retransmit missed notifications
Default	false
Introduced	16.0.R1

security-level *keyword*

Context	**configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description	Security level at which SNMP notification messages are sent to SNMP notification collector
Default	no-auth-no-privacy
Options	no-auth-no-privacy, auth-no-privacy, privacy
Introduced	16.0.R1

version *keyword*

Context	**configure service vprn** *service-name* **log snmp-trap-group** *number* **trap-target** *string*
Description	SNMP version to format notification messages sent to this SNMP notification collector
Default	snmpv3
Options	snmpv1, snmpv2c, snmpv3
Introduced	16.0.R1

syslog [syslog-id] *number*

Context	**configure service vprn** *service-name* **log**
Description	Enter the syslog context
Introduced	16.0.R1

[syslog-id] *number*

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	Unique arbitrary identifier for this SYSLOG collector target
Range	1 to 30
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	Target syslog host address
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

facility *keyword*

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	Facility code for messages
Default	local7
Options	kernel, user, mail, systemd, auth, syslogd, printer, netnews, uucp, cron, authpriv, ftp, ntp, logaudit, logalert, cron2, local0, local1, local2, local3, local4, local5, local6, local7
Introduced	16.0.R1

log-prefix (*keyword* | *string*)

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	String that is prepended to every log message sent to this target syslog host
String Length	1 to 32
Default	TMNX
Options	no-prefix
Introduced	16.0.R1

port *number*

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	UDP port to generate syslog messages
Range	0 | 1 to 65535
Default	514
Introduced	16.0.R1

severity *keyword*

Context	**configure service vprn** *service-name* **log syslog** *number*
Description	Severity level threshold for the syslog message
Default	info
Options	emergency, alert, critical, error, warning, notice, info, debug
Introduced	16.0.R1

management

Context **configure service vprn** *service-name*

Description Enter the management context

Introduced 16.0.R1

allow-ssh *boolean*

Context **configure service vprn** *service-name* **management**

Description Allow/disallow access to ssh server.

Default false

Introduced 16.0.R5

allow-telnet *boolean*

Context **configure service vprn** *service-name* **management**

Description Allow/disallow access to telnet server.

Default false

Introduced 16.0.R5

allow-telnet6 *boolean*

Context **configure service vprn** *service-name* **management**

Description Allow/disallow access to telnet IPv6 server.

Default false

Introduced 16.0.R5

maximum-ipv4-routes

Context **configure service vprn** *service-name*

Description Enter the maximum-ipv4-routes context

Introduced 16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **maximum-ipv4-routes**
Description	Action when the maximum number of routes, held within a VRF context, is reached
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **maximum-ipv4-routes**
Description	Mid-level water marker for the number of routes which this VRF holds
Range	1 to 100
Units	percent
Introduced	16.0.R1

value *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **maximum-ipv4-routes**
Description	Maximum number of routes that are configured on this virtual router
Range	1 to 2147483647
Introduced	16.0.R1

maximum-ipv6-routes

Context	**configure service vprn** *service-name*
Description	Enter the maximum-ipv6-routes context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **maximum-ipv6-routes**
Description	Action when the maximum number of routes, held within a VRF context, is reached
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **maximum-ipv6-routes**
Description	Mid-level water marker for the number of routes which this VRF holds
Range	1 to 100
Units	percent
Introduced	16.0.R1

value *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **maximum-ipv6-routes**
Description	Maximum number of routes that are configured on this virtual router
Range	1 to 2147483647
Introduced	16.0.R1

mc-maximum-routes

Context	**configure service vprn** *service-name*
Description	Enter the mc-maximum-routes context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **mc-maximum-routes**
Description	Action when the maximum number of multicast routes, held within a VRF context, is reached
Default	false
Introduced	16.0.R1

threshold *number*

Context	**configure service vprn** *service-name* **mc-maximum-routes**
Description	Mid-level water marker for the number of multicast routes which this VRF holds
Range	1 to 100
Units	percent
Introduced	16.0.R1

value *number*

Context	**configure service vprn** *service-name* **mc-maximum-routes**
Description	Maximum number of multicast routes to be configured on this virtual router
Range	1 to 2147483647
Introduced	16.0.R1

mld

Context	**configure service vprn** *service-name*
Description	Enter the mld context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **mld**
Description	Administrative state of MLD operation
Default	enable
Options	enable, disable
Introduced	16.0.R1

forwarding-group-interface forwarding-service *service-name* **group-interface-name** *interface-name*

Context	**configure service vprn** *service-name* **mld**
Description	Enter the forwarding-group-interface context
Introduced	16.0.R1

forwarding-service *service-name*

Context	**configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Forwarding service for a subscriber interface in a retailer context
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

group-interface-name *interface-name*

Context	**configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Import policy to filter MLD packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Max groups number for which IGMP can have local receiver information based on received IGMP reports

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Maximum number of sources that are allowed per group

Range 1 to 1000

Introduced 16.0.R1

mcac

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Time to wait for a response to the host-query messages

Range 1 to 1023

Introduced 16.0.R1

query-source-address *ipv6-unicast-or-linklocal-address*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Source address for MLD queries

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Enable IGMP router alert check option

Default true

Introduced 16.0.R1

sub-hosts-only *boolean*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Allow MLD traffic from known hosts only

Default true

Introduced 16.0.R1

subnet-check *boolean*

Context **configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*

Description Enable subnet checking

Default true

Introduced 16.0.R1

version *keyword*

Context	**configure service vprn** *service-name* **mld forwarding-group-interface forwarding-service** *service-name* **group-interface-name** *interface-name*
Description	MLD protocol version
Default	2
Options	1, 2
Introduced	16.0.R1

group-if-query-source-address *ipv6-unicast-or-linklocal-address*

Context	**configure service vprn** *service-name* **mld**
Description	Source address in queries for group interfaces when not configured at group interface level
Introduced	16.0.R1

group-interface [group-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **mld**
Description	Enter the group-interface context
Introduced	16.0.R1

[group-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Import policy to filter MLD packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Enter the mcac context
Introduced	16.0.R1

bandwidth

Context **configure service vprn** *service-name* **mld group-interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **mld group-interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **mld group-interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **mld group-interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **mld group-interface** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Time between two consecutive host-query messages
Range	2 to 1024
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Time between group-specific query messages
Range	1 to 1023
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

query-source-address *ipv6-unicast-or-linklocal-address*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Source address for MLD queries
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

sub-hosts-only *boolean*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Allow MLD traffic from known hosts only
Default	true
Introduced	16.0.R1

subnet-check *boolean*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	Enable subnet checking
Default	true
Introduced	16.0.R1

version *keyword*

Context	**configure service vprn** *service-name* **mld group-interface** *interface-name*
Description	MLD protocol version
Default	2
Options	1, 2
Introduced	16.0.R1

interface [ip-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **mld**
Description	Enter the interface context
Introduced	16.0.R1

[ip-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Import policy to filter MLD packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

mcac

Context **configure service vprn** *service-name* **mld interface** *interface-name*

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

level [level-id] *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints**
Description	Enter the level context
Introduced	16.0.R1

[level-id] *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth level ID for a multicast CAC constraint
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

bandwidth *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth available for this level
Range	0 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

number-down [number-lag-port-down] *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints**
Description	Enter the number-down context
Introduced	16.0.R1

[number-lag-port-down] *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Number of LAG ports down
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints number-down** *number*

Description Level associated with the number of LAG ports that are down

Range 1 to 8

Introduced 16.0.R1

Notes This element is mandatory

use-lag-port-weight *boolean*

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac mc-constraints**

Description Use LAG port weight while calculating Multicast CAC constraints

Default false

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **mld interface** *interface-name* **mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

query-interval *number*

Context **configure service vprn** *service-name* **mld interface** *interface-name*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure service vprn** *service-name* **mld interface** *interface-name*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

ssm-translate

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv6-multicast-address* **end** *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

static

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group** *ipv6-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group** *ipv6-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group** *ipv6-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

group-range start *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	Start of group range of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	End of group range for multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

step *ipv6-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	Step interval for the group-range addresses
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure service vprn** *service-name* **mld interface** *interface-name* **static group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **step** *ipv6-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

version *keyword*

Context	**configure service vprn** *service-name* **mld interface** *interface-name*
Description	MLD protocol version
Default	2
Options	1, 2
Introduced	16.0.R1

query-interval *number*

Context	**configure service vprn** *service-name* **mld**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure service vprn** *service-name* **mld**
Description	Time between group-specific query messages
Range	1 to 1023
Default	1
Units	seconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure service vprn** *service-name* **mld**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure service vprn** *service-name* **mld**
Description	Robust count to tune for the expected packet loss on a subnet
Range	2 to 10
Default	2
Introduced	16.0.R1

ssm-translate

Context	**configure service vprn** *service-name* **mld**
Description	Enter the ssm-translate context
Introduced	16.0.R1

group-range start *ipv6-multicast-address* **end** *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld ssm-translate**
Description	Enter the group-range context
Introduced	16.0.R1

start *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Start of group range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv6-multicast-address*

Context	**configure service vprn** *service-name* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	End of group range
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address*
Description	Enter the source context
Min. Elements	1
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **mld ssm-translate group-range start** *ipv6-multicast-address* **end** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a list key

mss-adjust

Context	**configure service vprn** *service-name*
Description	Enter the mss-adjust context
Introduced	16.0.R1

nat-group *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **mss-adjust**
Description	NAT group (including WLAN Gateway group) that executes the adjustment
Introduced	16.0.R1
Notes	This element is mandatory

segment-size *number*

Context	**configure service vprn** *service-name* **mss-adjust**
Description	Intended value for the Maximum Segment Size (MSS) option in transmitted TCP SYN requests
Range	160 to 10240
Introduced	16.0.R1
Notes	This element is mandatory

mtrace2

Context	**configure service vprn** *service-name*
Description	Enter the mtrace2 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **mtrace2**
Description	Administrative state of UDP based multicast traceroute tests (mstat2 and mtrace2)
Default	disable
Options	enable, disable
Introduced	16.0.R1

udp-port *number*

Context	**configure service vprn** *service-name* **mtrace2**
Description	Destination UDP port for mstat2|mtrace2 test, or unsolicited mstat2|mtrace2 packets
Range	1024 to 49151
Default	5000
Introduced	16.0.R1

multicast-info-policy *string*

Context	**configure service vprn** *service-name*
Description	Multicast policy name for virtual router
Reference	configure **multicast-management multicast-info-policy** *string*
Introduced	16.0.R1

nat

Context **configure service vprn** *service-name*

Description Enter the nat context

Introduced 16.0.R1

inside

Context **configure service vprn** *service-name* **nat**

Description Enter the inside context

Introduced 16.0.R1

l2-aware

Context **configure service vprn** *service-name* **nat inside**

Description Enter the l2-aware context

Introduced 16.0.R1

subscribers [prefix] *ipv4-prefix-with-host-bits*

Context **configure service vprn** *service-name* **nat inside l2-aware**

Description Enter the subscribers context

Introduced 16.0.R1

[prefix] *ipv4-prefix-with-host-bits*

Context **configure service vprn** *service-name* **nat inside l2-aware subscribers** *ipv4-prefix-with-host-bits*

Description Layer-2 Aware NAT subscriber prefix

Introduced 16.0.R1

Notes This element is part of a list key

large-scale

Context **configure service vprn** *service-name* **nat inside**

Description Enter the large-scale context

Introduced 16.0.R1

dnat-only

Context **configure service vprn** *service-name* **nat inside large-scale**

Description Enter the dnat-only context

Introduced 16.0.R1

source-prefix-list *string*

Context **configure service vprn** *service-name* **nat inside large-scale dnat-only**

Description NAT prefix list that contains source IP addresses

Reference configure **service nat prefix-list** *string*

Introduced 16.0.R1

dual-stack-lite

Context **configure service vprn** *service-name* **nat inside large-scale**

Description Enter the dual-stack-lite context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale dual-stack-lite**

Description Administrative state of Dual Stack Lite

Default disable

Options enable, disable

Introduced 16.0.R1

deterministic

Context **configure service vprn** *service-name* **nat inside large-scale dual-stack-lite**

Description Enter the deterministic context

Introduced 16.0.R1

policy-map [source-prefix] *ipv6-unicast-prefix*

Context **configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic**

Description Enter the policy-map context

Introduced 16.0.R1

[source-prefix] *ipv6-unicast-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	Source prefix that adds traffic to NAT pool
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	Administrative state of this prefix
Default	disable
Options	enable, disable
Introduced	16.0.R1

map [from] *ipv6-prefix* **to** *ipv6-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	Enter the map context
Introduced	16.0.R1

[from] *ipv6-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix* **map** *ipv6-prefix* **to** *ipv6-prefix*
Description	Beginning of the range for IPv6 addresses that is mapped on the inside to outside IPv6addresses
Introduced	16.0.R1
Notes	This element is part of a list key

to *ipv6-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix* **map** *ipv6-prefix* **to** *ipv6-prefix*
Description	Ending of the range for IPv6 addresses that is mapped on the inside to outside IPv6 addresses
Introduced	16.0.R1
Notes	This element is part of a list key

first-outside-address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix* **map** *ipv6-prefix* **to** *ipv6-prefix*
Description	IPv6 address range that is mapped to outside IPv4 address
Introduced	16.0.R1
Notes	This element is mandatory

nat-policy *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite deterministic policy-map** *ipv6-unicast-prefix*
Description	NAT policy
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

endpoint [address] *ipv6-address*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite**
Description	Enter the endpoint context
Max. Elements	128
Introduced	16.0.R1

[address] *ipv6-address*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Dual Stack Lite IPv6 address
Introduced	16.0.R1
Notes	This element is part of a list key

ip-fragmentation *keyword*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Fragmentation control of the AFTR originated downstream IPv6 traffic
Options	fragment-ipv6, fragment-ipv6-unless-ipv4-df-set
Introduced	16.0.R1

reassembly *boolean*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Reassembly of IPv6 payload datagrams
Default	false
Introduced	16.0.R1

tunnel-mtu *number*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite endpoint** *ipv6-address*
Description	Maximum size of IPv4 packet inside of DS-Lite tunnel
Range	512 to 9212
Default	1500
Introduced	16.0.R1

max-subscriber-limit *number*

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite**
Description	Largest value for all subscriber limits in each deterministic pool
Range	1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | 32768
Introduced	16.0.R1

subscriber-prefix-length *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat inside large-scale dual-stack-lite**
Description	IPv6 prefix length of the Dual Stack Lite subscribers
Range	32 to 64 | 128
Introduced	16.0.R1

filters

Context	**configure service vprn** *service-name* **nat inside large-scale**
Description	Enter the filters context
Introduced	16.0.R1

downstream

Context	**configure service vprn** *service-name* **nat inside large-scale filters**
Description	Enter the downstream context
Introduced	16.0.R1

ipv4 *string*

Context	**configure service vprn** *service-name* **nat inside large-scale filters downstream**
Description	IP filter for downstream traffic
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

nat-policy *string*

Context	**configure service vprn** *service-name* **nat inside large-scale**
Description	NAT policy for LSN
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

nat44

Context	**configure service vprn** *service-name* **nat inside large-scale**
Description	Enter the nat44 context
Introduced	16.0.R1

destination-prefix [ip-prefix-length] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale nat44**
Description	Enter the destination-prefix context
Max. Elements	1024
Introduced	16.0.R1

[ip-prefix-length] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale nat44 destination-prefix** *ipv4-unicast-prefix*
Description	Traffic sent to destinations within this prefix will be NATed
Introduced	16.0.R1
Notes	This element is part of a list key

nat-policy *string*

Context	**configure service vprn** *service-name* **nat inside large-scale nat44 destination-prefix** *ipv4-unicast-prefix*
Description	NAT policy
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

deterministic

Context	**configure service vprn** *service-name* **nat inside large-scale nat44**
Description	Enter the deterministic context
Introduced	16.0.R1

policy-map [source-prefix] *ipv4-unicast-prefix*

Context **configure service vprn** *service-name* **nat inside large-scale nat44 deterministic**

Description Enter the policy-map context

Introduced 16.0.R1

[source-prefix] *ipv4-unicast-prefix*

Context **configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*

Description Source prefix that adds traffic to NAT pool

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*

Description Administrative state of this prefix

Default disable

Options enable, disable

Introduced 16.0.R1

map [from] *ipv4-address* **to** *ipv4-address*

Context **configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*

Description Enter the map context

Introduced 16.0.R1

[from] *ipv4-address*

Context **configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix* **map** *ipv4-address* **to** *ipv4-address*

Description Beginning of the range for IPv4 addresses that is mapped on the inside to outside IPv4 addresses

Introduced 16.0.R1

Notes This element is part of a list key

to *ipv4-address*

Context	**configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix* **map** *ipv4-address* **to** *ipv4-address*
Description	Ending of the range for IPv4 addresses that is mapped on the inside to outside IPv4 addresses
Introduced	16.0.R1
Notes	This element is part of a list key

first-outside-address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix* **map** *ipv4-address* **to** *ipv4-address*
Description	IPv6 address range that is mapped to outside IPv4 address
Introduced	16.0.R1
Notes	This element is mandatory

nat-policy *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat inside large-scale nat44 deterministic policy-map** *ipv4-unicast-prefix*
Description	NAT policy
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

max-subscriber-limit *number*

Context	**configure service vprn** *service-name* **nat inside large-scale nat44**
Description	Largest value for all subscriber limits in each deterministic pool
Range	1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 | 1024 | 2048 | 4096 | 8192 | 16384 | 32768
Introduced	16.0.R1

nat64

Context **configure service vprn** *service-name* **nat inside large-scale**

Description Enter the nat64 context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale nat64**

Description Administrative state of NAT65

Default disable

Options enable, disable

Introduced 16.0.R1

drop-zero-ipv4-checksum *boolean*

Context **configure service vprn** *service-name* **nat inside large-scale nat64**

Description Drop UDP datagrams with zero IPv4 checksum

Default false

Introduced 16.0.R1

insert-ipv6-fragment-header *boolean*

Context **configure service vprn** *service-name* **nat inside large-scale nat64**

Description Include IPv6 fragment header to indicate that the sender allows fragmentation

Default false

Introduced 16.0.R1

ip-fragmentation *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale nat64**

Description Control fragmentation of originated downstream IPv6 traffic

Options fragment-ipv6, fragment-ipv6-unless-ipv4-df-set

Introduced 16.0.R1

ipv6-mtu *number*

Context	**configure service vprn** *service-name* **nat inside large-scale nat64**
Description	Size of the IPv6 downstream packet in NAT64
Range	1280 to 9212
Default	1520
Introduced	16.0.R1

prefix *ipv6-prefix*

Context	**configure service vprn** *service-name* **nat inside large-scale nat64**
Description	IPv6 prefix to derive the IPv6 address from the IPv4 address
Default	64:ff9b::/96
Introduced	16.0.R1

subscriber-prefix-length *number*

Context	**configure service vprn** *service-name* **nat inside large-scale nat64**
Description	IPv6 prefix length for the NAT64 subscribers
Range	32 to 64 | 128
Introduced	16.0.R1

tos

Context	**configure service vprn** *service-name* **nat inside large-scale nat64**
Description	Enter the tos context
Introduced	16.0.R1

downstream

Context	**configure service vprn** *service-name* **nat inside large-scale nat64 tos**
Description	Enter the downstream context
Introduced	16.0.R4

use-ipv4 *boolean*

Context	**configure service vprn** *service-name* **nat inside large-scale nat64 tos downstream**
Description	Copy TOS/DSCP bits from the incoming IPv4 frame to the outgoing IPv6 frame
Default	false
Introduced	16.0.R4

upstream

Context	**configure service vprn** *service-name* **nat inside large-scale nat64 tos**
Description	Enter the upstream context
Introduced	16.0.R4

set-tos (*keyword* | *number*)

Context	**configure service vprn** *service-name* **nat inside large-scale nat64 tos upstream**
Description	TOS/DSCP bits in IPv4 frame in the upstream direction
Range	0 to 255
Default	use-ipv6
Options	use-ipv6
Introduced	16.0.R4

redundancy

Context	**configure service vprn** *service-name* **nat inside large-scale**
Description	Enter the redundancy context
Introduced	16.0.R1

peer *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **nat inside large-scale redundancy**
Description	IP address of the NAT redundancy peer for this virtual router instance
Introduced	16.0.R1

peer6 *ipv6-unicast-address*

Context **configure service vprn** *service-name* **nat inside large-scale redundancy**

Description IPv6 address of the NAT redundancy peer for this virtual router instance

Introduced 16.0.R1

steering-route (*ipv4-prefix* | *ipv6-prefix*)

Context **configure service vprn** *service-name* **nat inside large-scale redundancy**

Description IP address and prefix length of the steering route

Introduced 16.0.R1

subscriber-identification

Context **configure service vprn** *service-name* **nat inside large-scale**

Description Enter the subscriber-identification context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification**

Description Administrative state of subscriber identification

Default disable

Options enable, disable

Introduced 16.0.R1

attribute

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification**

Description Enter the attribute context

Introduced 16.0.R1

type *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification attribute**

Description The RADIUS Vendor-Id value corresponding with this vendor.

Default alc-sub-string

Options alc-sub-string, user-name, class, station-id, imsi, imei

Introduced 16.0.R4

vendor *keyword*

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification attribute**

Description The RADIUS Vendor

Default nokia

Options standard, nokia, 3gpp

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

drop-unidentified-traffic *boolean*

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification**

Description Drop traffic from unidentified flows

Default false

Introduced 16.0.R1

radius-proxy-server

Context **configure service vprn** *service-name* **nat inside large-scale subscriber-identification**

Description Enter the radius-proxy-server context

Introduced 16.0.R1

router-instance *string*

Context	**configure service vprn** *service-name* **nat inside large-scale subscriber-identification radius-proxy-server**
Description	Router instance
Introduced	16.0.R1
Notes	This element is mandatory

server *string*

Context	**configure service vprn** *service-name* **nat inside large-scale subscriber-identification radius-proxy-server**
Description	Server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

map

Context	**configure service vprn** *service-name* **nat**
Description	Enter the map context
Introduced	16.0.R1

map-domain [domain-name] *string*

Context	**configure service vprn** *service-name* **nat map**
Description	Enter the map-domain context
Introduced	16.0.R1

[domain-name] *string*

Context	**configure service vprn** *service-name* **nat map map-domain** *string*
Description	MAP domain name
Reference	configure **service nat map-t domain** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

outside

Context	**configure service vprn** *service-name* **nat**
Description	Enter the outside context
Introduced	16.0.R1

dnat-only

Context	**configure service vprn** *service-name* **nat outside**
Description	Enter the dnat-only context
Introduced	16.0.R1

route-limit *number*

Context	**configure service vprn** *service-name* **nat outside dnat-only**
Description	Number that is used to limit internal routes for downstream traffic
Range	1 to 131072
Default	32768
Introduced	16.0.R1

filters

Context	**configure service vprn** *service-name* **nat outside**
Description	Enter the filters context
Introduced	16.0.R1

downstream

Context	**configure service vprn** *service-name* **nat outside filters**
Description	Enter the downstream context
Introduced	16.0.R1

ipv4 *string*

Context	**configure service vprn** *service-name* **nat outside filters downstream**
Description	IP filter for downstream traffic
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **nat outside filters downstream**

Description IPv6 filter for downstream traffic

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

upstream

Context **configure service vprn** *service-name* **nat outside filters**

Description Enter the upstream context

Introduced 16.0.R1

ipv4 *string*

Context **configure service vprn** *service-name* **nat outside filters upstream**

Description IP filter for upstream traffic

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **nat outside filters upstream**

Description IPv6 filter for upstream traffic

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

mtu *number*

Context **configure service vprn** *service-name* **nat outside**

Description MTU for downstream traffic

Range 512 to 9000

Introduced 16.0.R1

pool [name] *string*

Context	**configure service vprn** *service-name* **nat outside**
Description	Enter the pool context
Max. Elements	1024
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	NAT pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address-range [start] *ipv4-unicast-address* **end** *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Enter the address-range context
Max. Elements	4096
Introduced	16.0.R1

[start] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	Start address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

end *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*
Description	End address of this range
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context **configure service vprn** *service-name* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

drain *boolean*

Context **configure service vprn** *service-name* **nat outside pool** *string* **address-range** *ipv4-unicast-address* **end** *ipv4-unicast-address*

Description Start or stop draining this NAT address range

Default false

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **nat outside pool** *string*

Description Administrative state of the outside NAT pool

Default disable

Options enable, disable

Introduced 16.0.R1

applications

Context **configure service vprn** *service-name* **nat outside pool** *string*

Description Enter the applications context

Introduced 16.0.R1

agnostic *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat outside pool** *string* **applications**
Description	NAT pool to create in the outside routing context
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

l2-aware

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Enter the l2-aware context
Introduced	16.0.R1

external-assignment *boolean*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **l2-aware**
Description	External IP address for Layer-2-aware
Default	false
Introduced	16.0.R1

large-scale

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Enter the large-scale context
Introduced	16.0.R1

deterministic

Context	**configure service vprn** *service-name* **nat outside pool** *string* **large-scale**
Description	Enter the deterministic context
Introduced	16.0.R1

port-reservation *number*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale deterministic**

Description Number of ports per deterministic port-block

Range 1 to 65536

Introduced 16.0.R1

redundancy

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale**

Description Enter the redundancy context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale redundancy**

Description Administrative state of multi-chassis redundancy

Default disable

Options enable, disable

Introduced 16.0.R1

Notes This element is part of a choice

export-route *ipv4-unicast-prefix*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale redundancy**

Description Route to export to the peer

Introduced 16.0.R1

Notes This element is part of a choice

follow

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale redundancy**

Description Enter the **follow** context

Introduced 16.0.R1

name *string*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale redundancy follow**

Description NAT pool name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

router-instance *string*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale redundancy follow**

Description The virtual router instance of the pool.

Introduced 16.0.R1

Notes This element is part of a choice

monitor-route *ipv4-unicast-prefix*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale redundancy**

Description Monitor the peer route

Introduced 16.0.R1

Notes This element is part of a choice

subscriber-limit *number*

Context **configure service vprn** *service-name* **nat outside pool** *string* **large-scale**

Description Maximum number of subscribers per IP address

Range 1 to 65535

Introduced 16.0.R1

mode *keyword*

Context **configure service vprn** *service-name* **nat outside pool** *string*

Description Mode of operation of this NAT address pool

Options auto, napt, one-to-one

Introduced 16.0.R1

nat-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Create a NAT group
Reference	configure **isa nat-group** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

port-forwarding

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Enter the port-forwarding context
Introduced	16.0.R1

dynamic-block-reservation *boolean*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **port-forwarding**
Description	Dynamic block to reserve for each subscriber with a forwarding port
Default	false
Introduced	16.0.R1

range-end *number*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **port-forwarding**
Description	End of the wildcard range for port forwards
Range	0 | 1023 to 65535
Introduced	16.0.R1

port-reservation

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Enter the port-reservation context
Introduced	16.0.R1

port-blocks *number*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **port-reservation**
Description	Number of dynamic port blocks per outside IP address
Range	1 to 64512
Introduced	16.0.R1
Notes	This element is part of a choice

ports *number*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **port-reservation**
Description	Number of ports in each dynamic port block within the pool
Range	1 to 32256
Introduced	16.0.R1
Notes	This element is part of a choice

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	NAT pool type
Options	large-scale, l2-aware, wlan-gw-anchor
Introduced	16.0.R1
Notes	This element is mandatory

watermarks

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Enter the watermarks context
Introduced	16.0.R1

high *number*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **watermarks**
Description	Percentage for high watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

low *number*

Context	**configure service vprn** *service-name* **nat outside pool** *string* **watermarks**
Description	Percentage for low watermark
Range	0 to 100
Introduced	16.0.R1
Notes	This element is mandatory

wlan-gw-group *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **nat outside pool** *string*
Description	Create a WLAN GW group for NAT
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

network

Context	**configure service vprn** *service-name*
Description	Enter the network context
Introduced	16.0.R4

ingress

Context	**configure service vprn** *service-name* **network**
Description	Enter the ingress context
Introduced	16.0.R4

filter

Context **configure service vprn** *service-name* **network ingress**

Description Enter the filter context

Introduced 16.0.R4

ip *string*

Context **configure service vprn** *service-name* **network ingress filter**

Description Apply IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R4

ipv6 *string*

Context **configure service vprn** *service-name* **network ingress filter**

Description Apply IPv6 filter

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R4

qos

Context **configure service vprn** *service-name* **network ingress**

Description Enter the qos context

Introduced 16.0.R4

fp-redirect-group *string*

Context **configure service vprn** *service-name* **network ingress qos**

Description The forwarding-plane queue group Policy for this VPRN

Reference configure **qos queue-group-templates ingress queue-group** *string*

Introduced 16.0.R4

instance *number*

Context	**configure service vprn** *service-name* **network ingress qos**
Description	The instance of the forwarding-plane ingress Queue Group for this VPRN
Range	1 to 65535
Introduced	16.0.R4

network-policy *string*

Context	**configure service vprn** *service-name* **network ingress qos**
Description	Associates a pre-existing network-policy-id to a VPRN
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R4

urpf-check *boolean*

Context	**configure service vprn** *service-name* **network ingress**
Description	Enable/disable URPF checking when the network interface is in selective VPRN mode
Default	true
Introduced	16.0.R4

network-interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name*
Description	Enter the network-interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	The administrative name assigned to this router interface. The interface name must be unique among entries with the same vRtrID value.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

cflowd-parameters

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Enter the cflowd-parameters context
Introduced	16.0.R1

sampling [sampling-type] *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **cflowd-parameters**
Description	Enter the sampling context
Introduced	16.0.R1

[sampling-type] *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	Cflowd sampling type for virtual router interface
Options	unicast, multicast
Introduced	16.0.R5
Notes	This element is part of a list key

direction *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The direction of the Cflowd analysis that is applied to the given interface.
Default	ingress-only
Options	ingress-only, egress-only, both
Introduced	16.0.R4

type *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **cflowd-parameters sampling** *keyword*
Description	The type of Cflowd analysis that is applied to the given interface.
Options	acl, interface
Introduced	16.0.R4
Notes	This element is mandatory

cpu-protection *string*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	CPM Protection policy associated with an interface
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Distributed CPU protection policy
Reference	configure **system security dist-cpu-protection policy** *string*
Introduced	16.0.R1

egress

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Enter the egress context
Introduced	16.0.R1

filter

Context **configure service vprn** *service-name* **network-interface** *interface-name* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **egress filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

hold-time

Context **configure service vprn** *service-name* **network-interface** *interface-name*

Description Enter the hold-time context

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **network-interface** *interface-name* **hold-time**

Description Enter the ipv4 context

Introduced 16.0.R1

down

Context **configure service vprn** *service-name* **network-interface** *interface-name* **hold-time ipv4**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **hold-time ipv4 down**

Description Apply down delay only when interface is configured or after reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **hold-time ipv4 down**

Description Down hold time for the IP interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

up

Context **configure service vprn** *service-name* **network-interface** *interface-name* **hold-time ipv4**

Description Enter the up context

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **hold-time ipv4 up**

Description Up hold time for the IP interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

ingress

Context **configure service vprn** *service-name* **network-interface** *interface-name*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ingress filter**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ingress-stats *boolean*

Context **configure service vprn** *service-name* **network-interface** *interface-name*

Description Collect ingress statistics

Default false

Introduced 16.0.R1

ip-mtu *number*

Context **configure service vprn** *service-name* **network-interface** *interface-name*

Description Interface IP MTU

Range 512 to 9000

Units bytes

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **network-interface** *interface-name*

Description Enter the ipv4 context

Introduced 16.0.R1

allow-directed-broadcasts *boolean*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**

Description Accept broadcasts that are directed to this interface

Default false

Introduced 16.0.R1

bfd

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description	Enter the bfd context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 bfd**
Description	Administrative state of BFD sessions established on this interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

echo-receive *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 bfd**
Description	BFD echo interval over this interface
Range	100 to 100000
Units	milliseconds
Introduced	16.0.R1

multiplier *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 bfd**
Description	Number of missed consecutive BFD messages from peer before the BFD session state changes to down
Range	3 to 20
Default	3
Introduced	16.0.R1

receive *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 bfd**
Description	BFD receive interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

transmit-interval *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 bfd**
Description	BFD transmit interval over this interface
Range	10 to 100000
Default	100
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 bfd**
Description	BFD session termination
Default	auto
Options	cpm-np, auto
Introduced	16.0.R1

icmp

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description	Enter the icmp context
Introduced	16.0.R1

mask-reply *boolean*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp**
Description	Allow responses to ICMP mask requests
Default	true
Introduced	16.0.R1

param-problem

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp**

Description Enter the param-problem context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp param-problem**

Description Administrative state of sending parameter-problem messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp param-problem**

Description Number of parameter-problem ICMP messages to send in specified time interval

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp param-problem**

Description Time used to limit number of parameter-problem ICMP messages issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

redirects

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp**

Description Enter the redirects context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp redirects**
Description	Administrative state of sending ICMP redirects
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp redirects**
Description	Maximum number of ICMP redirect messages to send
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp redirects**
Description	Time to limit the number of ICMP redirect messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ttl-expired

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp**
Description	Enter the ttl-expired context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Administrative state of sending TTL expired messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Maximum number of TTL expired messages to send
Range	10 to 2000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Time to limit the number of ICMP TTL expired messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

unreachables

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp**
Description	Enter the unreachables context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp unreachables**
Description	Administrative state of sending unreachable messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp unreachables**
Description	Maximum number of unreachable messages to send
Range	10 to 2000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 icmp unreachables**
Description	Time to limit the number of unreachable messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

neighbor-discovery

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description	Enter the neighbor-discovery context
Introduced	16.0.R1

retry-timer *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 neighbor-discovery**
Description	ARP retry interval
Range	1 to 300
Default	50
Units	deciseconds
Introduced	16.0.R1

static-neighbor [ipv4-address] *ipv4-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enter the static-neighbor context
Introduced	16.0.R1

[ipv4-address] *ipv4-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	IPv4 address corresponding to the media-dependent physical address
Introduced	16.0.R1
Notes	This element is part of a list key

mac-address *mac-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 neighbor-discovery static-neighbor** *ipv4-address*
Description	Media-dependent physical address
Introduced	16.0.R1
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Timeout for an ARP entry learned on the interface
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

primary

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description	Enter the primary context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 primary**
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is mandatory

broadcast *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 primary**
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

prefix-length *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 primary**
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

secondary [address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description	Enter the secondary context
Introduced	16.0.R1

[address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

broadcast *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Broadcast address format
Default	host-ones
Options	all-ones, host-ones
Introduced	16.0.R1

igp-inhibit *boolean*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	Secondary IP address that is not recognized as local interface by the running IGP
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 secondary** *ipv4-unicast-address*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

tcp-mss *number*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description TCP maximum segment size for the interface
Range 384 to 9158
Introduced 16.0.R1

urpf-check

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4**
Description Enter the urpf-check context
Introduced 16.0.R1

ignore-default *boolean*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 urpf-check**
Description Ignore default route when performing a uRPF check
Default false
Introduced 16.0.R1

mode *keyword*

Context **configure service vprn** *service-name* **network-interface** *interface-name* **ipv4 urpf-check**
Description Unicast RPF check mode
Default strict
Options strict, loose, strict-no-ecmp
Introduced 16.0.R1

lag

Context **configure service vprn** *service-name* **network-interface** *interface-name*
Description Enter the lag context
Introduced 16.0.R1

link-map-profile *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **lag**
Description	LAG link map profile applied to a SAP or network interface
Range	1 to 64
Introduced	16.0.R1

per-link-hash

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **lag**
Description	Enter the per-link-hash context
Introduced	16.0.R1

class *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **lag per-link-hash**
Description	Class used on LAG egress when using weighted per-link-hash
Range	1 to 3
Default	1
Introduced	16.0.R1

weight *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **lag per-link-hash**
Description	Weight used on LAG egress when using weighted per-link-hash
Range	1 to 1024
Default	1
Introduced	16.0.R1

load-balancing

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Enter the load-balancing context
Introduced	16.0.R1

ip-load-balancing *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **load-balancing**
Description	Configure IP load balancing algorithm.
Default	both
Options	both, destination, source, inner-ip
Introduced	16.0.R3

lsr-load-balancing *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **load-balancing**
Description	LSR load balancing algorithm
Options	lbl-only, lbl-ip, ip-only, eth-encap-ip, lbl-ip-l4-teid
Introduced	16.0.R1

spi-load-balancing *boolean*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **load-balancing**
Description	Allow use of SPI (Security Parameter Index) in hashing for ESP/AH encrypted IPv4/IPv6 traffic
Default	false
Introduced	16.0.R1

teid-load-balancing *boolean*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **load-balancing**
Description	Include TEID in hashing algorithm for GTP-U/C encapsulated traffic
Default	false
Introduced	16.0.R1

loopback

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Use interface as a loopback interface
Introduced	16.0.R1
Notes	This element is part of a choice

mac *mac-unicast-address*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	MAC address for the interface
Introduced	16.0.R1

port *port-and-encap*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Port to bind the interface
String Length	1 to 45
Introduced	16.0.R1
Notes	This element is part of a choice

qos

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	Enter the qos context
Introduced	16.0.R1

egress-instance *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **qos**
Description	Instance of the port egress queue group for this interface
Range	1 to 65535
Introduced	16.0.R1

egress-port-redirect-group *string*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **qos**
Description	QoS queue group name
Reference	configure **qos queue-group-templates egress queue-group** *string*
Introduced	16.0.R1

ingress-fp-redirect-group *string*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **qos**
Description	Forwarding-plane queue group policy for this interface
Reference	configure **qos queue-group-templates ingress queue-group** *string*
Introduced	16.0.R1

ingress-instance *number*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **qos**
Description	Instance of the forwarding-plane ingress queue group for this interface
Range	1 to 65535
Introduced	16.0.R1

network-policy *string*

Context	**configure service vprn** *service-name* **network-interface** *interface-name* **qos**
Description	Pre-existing network policy ID associated with a network interface
Reference	configure **qos network** *network-policy-name*
Introduced	16.0.R1

tos-marking-state *keyword*

Context	**configure service vprn** *service-name* **network-interface** *interface-name*
Description	TOS marking state
Default	trusted
Options	trusted, untrusted
Introduced	16.0.R1

ntp

Context	**configure service vprn** *service-name*
Description	Enter the ntp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **ntp**
Description	Administrative state of NTP protocol execution
Default	disable
Options	enable, disable
Introduced	16.0.R1

authenticate *boolean*

Context	**configure service vprn** *service-name* **ntp**
Description	Authentication of NTP PDUs when acting as a server
Default	false
Introduced	16.0.R1

authentication-check *boolean*

Context	**configure service vprn** *service-name* **ntp**
Description	Reject NTP PDUs that do not match the authentication key-id, type, or key requirements
Default	true
Introduced	16.0.R1

authentication-key [key-id] *number*

Context	**configure service vprn** *service-name* **ntp**
Description	Enter the authentication-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure service vprn** *service-name* **ntp authentication-key** *number*
Description	Index of the NTP authentication key table that uniquely identifies an authentication key and type
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

key *encrypted-leaf*

Context	**configure service vprn** *service-name* **ntp authentication-key** *number*
Description	Key to authenticate NTP packets
String Length	1 to 70
Introduced	16.0.R1
Notes	This element is mandatory

type *keyword*

Context	**configure service vprn** *service-name* **ntp authentication-key** *number*
Description	Type of authentication method to authenticate NTP packet
Options	des, message-digest
Introduced	16.0.R1
Notes	This element is mandatory

broadcast [interface-name] *string*

Context	**configure service vprn** *service-name* **ntp**
Description	Enter the broadcast context
Introduced	16.0.R1

[interface-name] *string*

Context	**configure service vprn** *service-name* **ntp broadcast** *string*
Description	Router interface name.
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

key-id *string*

Context	**configure service vprn** *service-name* **ntp broadcast** *string*
Description	Specifies the key-id of the authentication key and its authentication type used by this node to receive and transmit NTP packets to and from an NTP node.
Reference	configure **service vprn** *service-name* **ntp authentication-key** *number*
Introduced	16.0.R1

ttl *number*

Context	**configure service vprn** *service-name* **ntp broadcast** *string*
Description	TTL value of messages transmitted by this broadcast address
Range	1 to 255
Default	127
Introduced	16.0.R1

version *number*

Context	**configure service vprn** *service-name* **ntp broadcast** *string*
Description	NTP version number generated or accepted by this node in NTP packets
Range	2 to 4
Default	4
Introduced	16.0.R1

ospf [ospf-instance] *number*

Context	**configure service vprn** *service-name*
Description	Enter the ospf context
Max. Elements	32
Introduced	16.0.R1

[ospf-instance] *number*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Specifies the value of the integrated OSPF instance.
Range	0
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Administrative state of the OSPF instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *keyword*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Allow router advertisement capabilities
Default	false
Options	false, link, area, as
Introduced	16.0.R1

area [area-id] *ipv4-address*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the area context
Introduced	16.0.R1

[area-id] *ipv4-address*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Area-ID attribute
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-router-capability *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **area-range** *ipv4-unicast-prefix*
Description	ip-prefix a.b.c.d (host bits must be 0) mask [0..32]
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **area-range** *ipv4-unicast-prefix*
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

blackhole-aggregate *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Install a low priority blackhole route to avoid loops
Default	true
Introduced	16.0.R1

export-policy *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Route that is exported as Type 3 Summary-LSAs or OSPFv3 Inter-Area-Prefix-LSA between areas
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import-policy *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Route that is imported as summary type 3/inter-area-prefix-LSA from another area into this area
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Router interface name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

advertise-subnet *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Advertise point-to-point interfaces as subnet routes
Default	true
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Authentication key
String Length	1 to 38
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Configure TCP authentication keychain to use for the session
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

authentication-type *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Authentication type used on OSPF interface
Options	password, message-digest
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

remain-down-on-failure *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **bfd-liveness**
Description	Force adjacency down on BFD failure and remain down until BFD session returns
Default	false
Introduced	16.0.R1

dead-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

interface-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Interface type to broadcast or point-to-point
Options	broadcast, non-broadcast, point-to-point, secondary
Introduced	16.0.R1

loopfree-alternate

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the loopfree-alternate context
Introduced	16.0.R3

exclude *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enable/disable fast re-route capability for OSPF at interface level (only valid for primary interface)
Default	false
Introduced	16.0.R3

policy-map

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enter the policy-map context
Introduced	16.0.R1

route-nh-template *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate policy-map**
Description	Route next hop policy template that is applied to interface
Reference	configure **routing-options route-next-hop-policy template** *string*
Introduced	16.0.R3
Notes	This element is mandatory

lsa-filter-out *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	LSA flooding reduction
Default	none
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Introduced	16.0.R1

message-digest-key [key-id] *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the message-digest-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **message-digest-key** *number*
Description	Message digest index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

md5 *encrypted-leaf*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **message-digest-key** *number*
Description	MD5 hash key
String Length	1 to 50
Introduced	16.0.R1

metric *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Explicit route cost metric that is applied to the interface
Range	1 to 65535
Introduced	16.0.R1

mtu *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	MTU for the OSPF to use on the interface
Range	512 to 9198
Introduced	16.0.R1

neighbor [address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the neighbor context
Introduced	16.0.R1

[address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name* **neighbor** *ipv4-unicast-address*
Description	Neighbor address
Introduced	16.0.R1
Notes	This element is part of a list key

passive *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Allow interface to be advertised as an OSPF interface without running the OSPF protocol
Default	false
Introduced	16.0.R1

poll-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between two Hello packets to a non-adjacent OSPF NBMA neighbor
Default	120
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Priority of the interface to apply in the designated router election on the subnet
Range	0 to 255
Default	1
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

rib-priority *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	RIB priority for OSPF
Options	high
Introduced	16.0.R1

transit-delay *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

loopfree-alternate-exclude *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Exclude specific interface or all interfaces participating in all OSPF areas in SPF LFA computation
Default	false
Introduced	16.0.R1

nssa

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Enter the nssa context
Introduced	16.0.R1

area-range [ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa area-range** *ipv4-unicast-prefix*
Description	ip-prefix a.b.c.d (host bits must be 0) mask [0..32]
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa area-range** *ipv4-unicast-prefix*
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

originate-default-route

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Enter the originate-default-route context
Introduced	16.0.R1

adjacency-check *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Perform adjacency checks before originating a default route
Default	false
Introduced	16.0.R1

type-nssa *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Generate a default route using NSSA-LSA type
Default	false
Introduced	16.0.R1

redistribute-external *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Redistribute external routes into the NSSA
Default	true
Introduced	16.0.R1

summaries *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **nssa**
Description	Send summary (Type 3) LSAs into the NSSA on an ABR
Default	true
Introduced	16.0.R1

sham-link [interface] *interface-name* **ip-address** *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Enter the sham-link context
Introduced	16.0.R1

[interface] *interface-name*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Router interface name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

ip-address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Destination IP address
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	authentication-key - [8 chars max] hash/hash2-key - [32 chars max]
String Length	1 to 38
Introduced	16.0.R4

authentication-keychain *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Configure TCP authentication keychain to use for the session
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Enable/disable authentication and specify authentication type to be used on the interface
Options	password, message-digest
Introduced	16.0.R4

dead-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

message-digest-key [key-id] *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Enter the message-digest-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address* **message-digest-key** *number*
Description	Message digest index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

md5 *encrypted-leaf*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address* **message-digest-key** *number*
Description	key - [16 chars max] hash/hash2-key - [44 chars max] (for hash scheme)
String Length	1 to 50
Introduced	16.0.R4

metric *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Explicit route cost metric that is applied to the sham link
Range	1 to 65535
Default	1
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

transit-delay *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **sham-link** *interface-name* **ip-address** *ipv4-unicast-address*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

stub

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Enter the stub context
Introduced	16.0.R1

default-metric *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **stub**
Description	Metric used by the ABR for the default route into the stub area
Range	1 to 16777214
Default	1
Introduced	16.0.R1

summaries *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **stub**
Description	Send summary (Type 3) LSAs into the stub area on an ABR
Default	true
Introduced	16.0.R1

virtual-link [router-id] *ipv4-address* **transit-area** *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Description	Enter the virtual-link context
Introduced	16.0.R1

[router-id] *ipv4-address*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Router identity of the virtual link neighbor
Introduced	16.0.R1
Notes	This element is part of a list key

transit-area *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Transit area that links backbone area to area without physical connection with the backbone
Reference	configure **service vprn** *service-name* **ospf** *number* **area** *ipv4-address*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Authentication key
String Length	1 to 38
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Configure TCP authentication keychain to use for the session
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

authentication-type *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Authentication type used on OSPF interface
Options	password, message-digest
Introduced	16.0.R1

dead-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	60
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

message-digest-key [key-id] *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Enter the message-digest-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string* **message-digest-key** *number*
Description	Message digest index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

md5 *encrypted-leaf*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string* **message-digest-key** *number*
Description	key - [16 chars max] hash/hash2-key - [44 chars max] (for hash scheme)
String Length	1 to 50
Introduced	16.0.R4

retransmit-interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

transit-delay *number*

Context	**configure service vprn** *service-name* **ospf** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

compatible-rfc1583 *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	OSPF summary and external route calculations
Default	true
Introduced	16.0.R1

export-limit

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the export-limit context
Introduced	16.0.R1

log-percent *number*

Context	**configure service vprn** *service-name* **ospf** *number* **export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **ospf** *number* **export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

export-policy *string*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

external-db-overflow

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the external-db-overflow context
Introduced	16.0.R1

interval *number*

Context	**configure service vprn** *service-name* **ospf** *number* **external-db-overflow**
Description	Time during which the router operates in overload
Range	0 to 2147483647
Default	0
Units	seconds
Introduced	16.0.R1

limit *number*

Context	**configure service vprn** *service-name* **ospf** *number* **external-db-overflow**
Description	Number of external LSA at which overload is triggered
Range	0 to 2147483647
Default	0
Introduced	16.0.R1

external-preference *number*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Preference for OSPF external routes
Range	1 to 255
Default	150
Introduced	16.0.R1

graceful-restart

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **graceful-restart**
Description	Enable graceful restart helper for OSPF
Default	true
Introduced	16.0.R1

strict-lsa-checking *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **graceful-restart**
Description	Perform strict LSA checking during graceful restart helper
Default	true
Introduced	16.0.R1

ignore-dn-bit *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enable/disable whether this instance of OSPF will ignore the DN bit for OSPF LSA packets.
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

loopfree-alternate

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the loopfree-alternate context
Introduced	16.0.R1

exclude

Context	**configure service vprn** *service-name* **ospf** *number* **loopfree-alternate**
Description	Enter the exclude context
Introduced	16.0.R3

prefix-policy *string*

Context	**configure service vprn** *service-name* **ospf** *number* **loopfree-alternate exclude**
Description	Loopfree Alternative (LFA) exclude policies from which prefixes are excluded. Prefixes excluded from LFA this way will not be used in the LFA calculation, regardless of their priority.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is ordered by user

multicast-import *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Submit routes into the multicast Route Table Manager
Default	false
Introduced	16.0.R1

overload *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Change overload state of the local router to appear to be overloaded
Default	false
Introduced	16.0.R1

overload-include-ext-2 *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Advertise external type-2 routes with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-include-stub *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Advertise all stub interfaces with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-on-boot

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the overload-on-boot context
Introduced	16.0.R1

timeout *number*

Context	**configure service vprn** *service-name* **ospf** *number* **overload-on-boot**
Description	Time during which the router operates in overload state before reestablishing normal operations
Range	60 to 1800
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Preference for OSPF internal routes
Range	1 to 255
Default	10
Introduced	16.0.R1

reference-bandwidth *number*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Bandwidth to reference the default costing of interfaces
Range	1 to 4000000000
Default	100000000
Units	kilobps
Introduced	16.0.R1

rib-priority

Context **configure service vprn** *service-name* **ospf** *number*

Description Enter the rib-priority context

Introduced 16.0.R1

high

Context **configure service vprn** *service-name* **ospf** *number* **rib-priority**

Description Enter the high context

Introduced 16.0.R1

prefix-list *string*

Context **configure service vprn** *service-name* **ospf** *number* **rib-priority high**

Description List used to select routes processed at higher priority through OSPF route calculation process

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

router-id *router-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **ospf** *number*

Description Unique router ID for OSPF instance

Introduced 16.0.R1

rtr-adv-lsa-limit

Context **configure service vprn** *service-name* **ospf** *number*

Description Enter the rtr-adv-lsa-limit context

Introduced 16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **ospf** *number* **rtr-adv-lsa-limit**
Description	Log the event, without triggering overload
Default	false
Introduced	16.0.R1

max-lsa-count *number*

Context	**configure service vprn** *service-name* **ospf** *number* **rtr-adv-lsa-limit**
Description	Maximum number of LSAs allowed to be advertised by one router
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

overload-timeout (*number* | *keyword*)

Context	**configure service vprn** *service-name* **ospf** *number* **rtr-adv-lsa-limit**
Description	Maximum timeout for overload when the maximum LSA count is reached
Default	forever
Introduced	16.0.R1

warning-threshold *number*

Context	**configure service vprn** *service-name* **ospf** *number* **rtr-adv-lsa-limit**
Description	Percentage of the maximum LSA count at which a warning is given
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R1

super-backbone *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enable/disable super-backbone functionality.
Default	false
Introduced	16.0.R1

suppress-dn-bit *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enable/disable whether this instance of OSPF will suppress setting the DN bit for OSPF LSA packets.
Default	false
Introduced	16.0.R1

timers

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the timers context
Introduced	16.0.R1

incremental-spf-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers**
Description	Delay time before an incremental SPF calculation is started
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-accumulate *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers**
Description	Delay time for accumulating multiple LSAs before advertising them to neighbors
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-arrival *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers**
Description	Minimum delay between receipt of the same LSAs arriving from neighbors
Range	0 to 600000
Default	1000
Introduced	16.0.R1

lsa-generate

Context	**configure service vprn** *service-name* **ospf** *number* **timers**
Description	Enter the lsa-generate context
Introduced	16.0.R1

lsa-initial-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers lsa-generate**
Description	First waiting period between link state advertisements LSA originates
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

lsa-second-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers lsa-generate**
Description	Hold time between the first and second LSA generation
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

max-lsa-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers lsa-generate**
Description	Maximum time between two consecutive occurrences of an LSA being generated
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

redistribute-delay *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers**
Description	Hold down timer for external routes that are redistributed in OSPF
Range	0 to 1000
Default	1000
Introduced	16.0.R1

spf-wait

Context	**configure service vprn** *service-name* **ospf** *number* **timers**
Description	Enter the spf-wait context
Introduced	16.0.R1

spf-initial-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers spf-wait**
Description	Initial SPF calculation delay after a topology change
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-max-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	10 to 120000
Default	10000
Units	milliseconds
Introduced	16.0.R1

spf-second-wait *number*

Context	**configure service vprn** *service-name* **ospf** *number* **timers spf-wait**
Description	Hold time between the first and second SPF calculation
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

unicast-import *boolean*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Submit routes into the unicast Route Table Manager
Default	true
Introduced	16.0.R1

vpn-domain

Context	**configure service vprn** *service-name* **ospf** *number*
Description	Enter the vpn-domain context
Introduced	16.0.R1

id *system-id*

Context	**configure service vprn** *service-name* **ospf** *number* **vpn-domain**
Description	VPN domain identifier in octets
String Length	14
Introduced	16.0.R1

type *keyword*

Context	**configure service vprn** *service-name* **ospf** *number* **vpn-domain**
Description	VPN domain
Options	0005, 0105, 0205, 8005
Introduced	16.0.R1
Notes	This element is mandatory

vpn-tag *number*

Context	**configure service vprn** *service-name* **ospf** *number*
Description	OSPF VPN tag
Default	0
Introduced	16.0.R1

ospf3 [ospf-instance] *number*

Context	**configure service vprn** *service-name*
Description	Enter the ospf3 context
Max. Elements	32
Introduced	16.0.R1

[ospf-instance] *number*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Specifies the value of the integrated OSPF instance.
Range	0 to 31 | 64 to 95
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Administrative state of the OSPF instance
Default	disable
Options	enable, disable
Introduced	16.0.R1

advertise-router-capability *keyword*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Allow router advertisement capabilities
Default	false
Options	false, link, area, as
Introduced	16.0.R1

area [area-id] *ipv4-address*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the area context
Introduced	16.0.R1

[area-id] *ipv4-address*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Area-ID attribute
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-router-capability *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Allow router advertisement capabilities
Default	true
Introduced	16.0.R1

area-range [ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Address ranges to create on an ABR for route summarization or suppression
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

blackhole-aggregate *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Install a low priority blackhole route to avoid loops
Default	true
Introduced	16.0.R1

export-policy *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Route that is exported as Type 3 Summary-LSAs or OSPFv3 Inter-Area-Prefix-LSA between areas
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import-policy *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Route that is imported as summary type 3/inter-area-prefix-LSA from another area into this area
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*

Description Enter the interface context

Introduced 16.0.R1

[interface-name] *interface-name*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Router interface name.

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Administrative state of the OSPF

Default enable

Options enable, disable

Introduced 16.0.R1

advertise-router-capability *boolean*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Allow router advertisement capabilities

Default true

Introduced 16.0.R1

bfd-liveness

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Enter the bfd-liveness context

Introduced 16.0.R1

remain-down-on-failure *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **bfd-liveness**
Description	Force adjacency down on BFD failure and remain down until BFD session returns
Default	false
Introduced	16.0.R1

dead-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	40
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

interface-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Interface type to broadcast or point-to-point
Options	broadcast, non-broadcast, point-to-point, secondary
Introduced	16.0.R1

loopfree-alternate

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Enter the loopfree-alternate context
Introduced	16.0.R3

exclude *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enable/disable fast re-route capability for OSPF at interface level (only valid for primary interface)
Default	false
Introduced	16.0.R3

policy-map

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate**
Description	Enter the policy-map context
Introduced	16.0.R1

route-nh-template *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **loopfree-alternate policy-map**
Description	Route next hop policy template that is applied to interface
Reference	configure **routing-options route-next-hop-policy template** *string*
Introduced	16.0.R3
Notes	This element is mandatory

lsa-filter-out *keyword*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	LSA flooding reduction
Default	none
Options	none, all, except-own-rtrlsa, except-own-rtrlsa-and-defaults
Introduced	16.0.R1

metric *number*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Explicit route cost metric that is applied to the interface

Range 1 to 65535

Introduced 16.0.R1

mtu *number*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description MTU for the OSPF to use on the interface

Range 512 to 9198

Introduced 16.0.R1

neighbor [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Enter the neighbor context

Introduced 16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name* **neighbor** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Neighbor link local address

Introduced 16.0.R1

Notes This element is part of a list key

passive *boolean*

Context **configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*

Description Allow interface to be advertised as an OSPF interface without running the OSPF protocol

Default false

Introduced 16.0.R1

poll-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time between two Hello packets to a non-adjacent OSPF NBMA neighbor
Default	120
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Priority of the interface to apply in the designated router election on the subnet
Range	0 to 255
Default	1
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

rib-priority *keyword*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	RIB priority for OSPF
Options	high
Introduced	16.0.R1

transit-delay *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **interface** *interface-name*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

key-rollover-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Key rollover interval
Range	10 to 300
Default	10
Units	seconds
Introduced	16.0.R1

loopfree-alternate-exclude *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Exclude specific interface or all interfaces participating in all OSPF areas in SPF LFA computation
Default	false
Introduced	16.0.R1

nssa

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Enter the nssa context
Introduced	16.0.R1

area-range [ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Enter the area-range context
Introduced	16.0.R1

[ip-prefix-mask] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Address ranges to create on an ABR for route summarization or suppression
Introduced	16.0.R1
Notes	This element is part of a list key

advertise *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa area-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	Advertise summarized range of addresses to other areas
Default	true
Introduced	16.0.R1

originate-default-route

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Enter the originate-default-route context
Introduced	16.0.R1

adjacency-check *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Perform adjacency checks before originating a default route
Default	false
Introduced	16.0.R1

type-nssa *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa originate-default-route**
Description	Generate a default route using NSSA-LSA type
Default	false
Introduced	16.0.R1

redistribute-external *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Redistribute external routes into the NSSA
Default	true
Introduced	16.0.R1

summaries *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **nssa**
Description	Send summary (Type 3) LSAs into the NSSA on an ABR
Default	true
Introduced	16.0.R1

stub

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Enter the stub context
Introduced	16.0.R1

default-metric *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **stub**
Description	Metric used by the ABR for the default route into the stub area
Range	1 to 16777214
Default	1
Introduced	16.0.R1

summaries *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **stub**
Description	Send summary (Type 3) LSAs into the stub area on an ABR
Default	true
Introduced	16.0.R1

virtual-link [router-id] *ipv4-address* **transit-area** *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Description	Enter the virtual-link context
Introduced	16.0.R1

[router-id] *ipv4-address*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Router identity of the virtual link neighbor
Introduced	16.0.R1
Notes	This element is part of a list key

transit-area *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Transit area that links backbone area to area without physical connection with the backbone
Reference	configure **service vprn** *service-name* **ospf3** *number* **area** *ipv4-address*
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Administrative state of the OSPF
Default	enable
Options	enable, disable
Introduced	16.0.R1

dead-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time OSPF waits without receiving Hello packets before declaring a neighbor down
Range	2 to 65535
Default	60
Units	seconds
Introduced	16.0.R1

hello-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time between OSPF Hellos of this interface
Range	1 to 65535
Default	10
Units	seconds
Introduced	16.0.R1

retransmit-interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time before OSPF retransmits an unacknowledged LSA to a neighbor
Range	1 to 1800
Default	5
Units	seconds
Introduced	16.0.R1

transit-delay *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **area** *ipv4-address* **virtual-link** *ipv4-address* **transit-area** *string*
Description	Time required to transmit an LSA on the interface, virtual link, or sham link
Range	1 to 1800
Default	1
Units	seconds
Introduced	16.0.R1

export-limit

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the export-limit context
Introduced	16.0.R1

log-percent *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R1

number *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

export-policy *string*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

external-db-overflow

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the external-db-overflow context
Introduced	16.0.R1

interval *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **external-db-overflow**
Description	Time during which the router operates in overload
Range	0 to 2147483647
Default	0
Units	seconds
Introduced	16.0.R1

limit *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **external-db-overflow**
Description	Number of external LSA at which overload is triggered
Range	0 to 2147483647
Default	0
Introduced	16.0.R1

external-preference *number*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Preference for OSPF external routes
Range	1 to 255
Default	150
Introduced	16.0.R1

graceful-restart

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the graceful-restart context
Introduced	16.0.R1

helper-mode *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **graceful-restart**
Description	Enable graceful restart helper for OSPF
Default	true
Introduced	16.0.R1

strict-lsa-checking *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **graceful-restart**
Description	Perform strict LSA checking during graceful restart helper
Default	true
Introduced	16.0.R1

ignore-dn-bit *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enable/disable whether this instance of OSPF will ignore the DN bit for OSPF LSA packets.
Default	false
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

loopfree-alternate

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the loopfree-alternate context
Introduced	16.0.R1

exclude

Context	**configure service vprn** *service-name* **ospf3** *number* **loopfree-alternate**
Description	Enter the exclude context
Introduced	16.0.R3

prefix-policy *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **loopfree-alternate exclude**
Description	Loopfree Alternative (LFA) exclude policies from which prefixes are excluded. Prefixes excluded from LFA this way will not be used in the LFA calculation, regardless of their priority.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R3
Notes	This element is ordered by user

multicast-import *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Submit routes into the multicast Route Table Manager
Default	false
Introduced	16.0.R1

overload *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Change overload state of the local router to appear to be overloaded
Default	false
Introduced	16.0.R1

overload-include-ext-2 *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Advertise external type-2 routes with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-include-stub *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Advertise all stub interfaces with maximum metric value in cases of overload
Default	false
Introduced	16.0.R1

overload-on-boot

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the overload-on-boot context
Introduced	16.0.R1

timeout *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **overload-on-boot**
Description	Time during which the router operates in overload state before reestablishing normal operations
Range	60 to 1800
Units	seconds
Introduced	16.0.R1

preference *number*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Preference for OSPF internal routes
Range	1 to 255
Default	10
Introduced	16.0.R1

reference-bandwidth *number*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Bandwidth to reference the default costing of interfaces
Range	1 to 4000000000
Default	100000000
Units	kilobps
Introduced	16.0.R1

rib-priority

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the rib-priority context
Introduced	16.0.R1

high

Context	**configure service vprn** *service-name* **ospf3** *number* **rib-priority**
Description	Enter the high context
Introduced	16.0.R1

prefix-list *string*

Context	**configure service vprn** *service-name* **ospf3** *number* **rib-priority high**
Description	List used to select routes processed at higher priority through OSPF route calculation process
Reference	configure **policy-options prefix-list** *string*
Introduced	16.0.R1

router-id *router-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Unique router ID for OSPF instance
Introduced	16.0.R1

rtr-adv-lsa-limit

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the rtr-adv-lsa-limit context
Introduced	16.0.R1

log-only *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Log the event, without triggering overload
Default	false
Introduced	16.0.R1

max-lsa-count *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Maximum number of LSAs allowed to be advertised by one router
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

overload-timeout (*number* | *keyword*)

Context	**configure service vprn** *service-name* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Maximum timeout for overload when the maximum LSA count is reached
Default	forever
Introduced	16.0.R1

warning-threshold *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **rtr-adv-lsa-limit**
Description	Percentage of the maximum LSA count at which a warning is given
Range	0 to 100
Default	0
Units	percent
Introduced	16.0.R1

suppress-dn-bit *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enable/disable whether this instance of OSPF will suppress setting the DN bit for OSPF LSA packets.
Default	false
Introduced	16.0.R1

timers

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Enter the timers context
Introduced	16.0.R1

incremental-spf-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers**
Description	Delay time before an incremental SPF calculation is started
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-accumulate *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers**
Description	Delay time for accumulating multiple LSAs before advertising them to neighbors
Range	0 to 1000
Default	1000
Introduced	16.0.R1

lsa-arrival *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers**
Description	Minimum delay between receipt of the same LSAs arriving from neighbors
Range	0 to 600000
Default	1000
Introduced	16.0.R1

lsa-generate

Context	**configure service vprn** *service-name* **ospf3** *number* **timers**
Description	Enter the lsa-generate context
Introduced	16.0.R1

lsa-initial-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers lsa-generate**
Description	First waiting period between link state advertisements LSA originates
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

lsa-second-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers lsa-generate**
Description	Hold time between the first and second LSA generation
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

max-lsa-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers lsa-generate**
Description	Maximum time between two consecutive occurrences of an LSA being generated
Range	10 to 600000
Default	5000
Units	milliseconds
Introduced	16.0.R1

redistribute-delay *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers**
Description	Hold down timer for external routes that are redistributed in OSPF
Range	0 to 1000
Default	1000
Introduced	16.0.R1

spf-wait

Context	**configure service vprn** *service-name* **ospf3** *number* **timers**
Description	Enter the spf-wait context
Introduced	16.0.R1

spf-initial-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers spf-wait**
Description	Initial SPF calculation delay after a topology change
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

spf-max-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers spf-wait**
Description	Maximum interval between two consecutive SPF calculations
Range	10 to 120000
Default	10000
Units	milliseconds
Introduced	16.0.R1

spf-second-wait *number*

Context	**configure service vprn** *service-name* **ospf3** *number* **timers spf-wait**
Description	Hold time between the first and second SPF calculation
Range	10 to 100000
Default	1000
Units	milliseconds
Introduced	16.0.R1

unicast-import *boolean*

Context	**configure service vprn** *service-name* **ospf3** *number*
Description	Submit routes into the unicast Route Table Manager
Default	true
Introduced	16.0.R1

pcp

Context	**configure service vprn** *service-name*
Description	Enter the pcp context
Introduced	16.0.R1

server [name] *string*

Context	**configure service vprn** *service-name* **pcp**
Description	Enter the server context
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	PCP server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	Administrative state of this PCP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dual-stack-lite-address *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	Inside Dual Stack Lite AFTR address
Introduced	16.0.R1

fwd-inside-router *string*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	PCP forwarding inside virtual router instance
Introduced	16.0.R1

interface [name] *string*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	Enter the interface context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **pcp server** *string* **interface** *string*
Description	Interface name
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

policy *string*

Context	**configure service vprn** *service-name* **pcp server** *string*
Description	PCP server policy
Reference	configure **service nat pcp-server-policy** *string*
Introduced	16.0.R1

pim

Context	**configure service vprn** *service-name*
Description	Enter the pim context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim**
Description	Administrative state of PIM
Default	enable
Options	enable, disable
Introduced	16.0.R1

apply-to *keyword*

Context	**configure service vprn** *service-name* **pim**
Description	IES and non-IES interfaces to create in PIM
Default	none
Options	all, none
Introduced	16.0.R1

import

Context	**configure service vprn** *service-name* **pim**
Description	Enter the import context
Introduced	16.0.R1

join-policy *string*

Context	**configure service vprn** *service-name* **pim import**
Description	Name of the policy is limited to 32 characters.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

register-policy *string*

Context	**configure service vprn** *service-name* **pim import**
Description	Name of the policy is limited to 32 characters.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name* **pim**
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Service VPRN interface name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Administrative state of this interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

assert-period *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Time for periodic refreshes of PIM Assert messages on an interface
Range	1 to 300
Default	60
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **bfd-liveness**
Description	Use Bidirectional Forwarding Detection for IPv4 on PIM interface
Default	false
Introduced	16.0.R1

ipv6 *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **bfd-liveness**
Description	Use Bidirectional Forwarding Detection for IPv6 on PIM interface
Default	false
Introduced	16.0.R1

bsm-check-rtr-alert *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Check router alert option in bootstrap messages received
Default	false
Introduced	16.0.R1

hello-interval *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Frequency at which PIM Hello messages are sent over this interface
Range	0 to 255
Default	30
Introduced	16.0.R1

hello-multiplier *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Multiplier of Hello in multiples of 0.1
Range	20 to 100
Default	35
Introduced	16.0.R1

improved-assert *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Allow improved assert processing on interface
Default	true
Introduced	16.0.R1

instant-prune-echo *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Allow PIM to send an instant prune echo when router starts the prune pending timer for PIM interface
Default	false
Introduced	16.0.R1

ipv4

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

monitor-oper-group

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv4**
Description	Enter the monitor-oper-group context
Introduced	16.0.R1

name *string*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv4 monitor-oper-group**
Description	Operational group to monitor for address family
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

operation *keyword*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv4 monitor-oper-group**
Description	Perform given operation when oper-group is active.
Options	add, subtract, set
Introduced	16.0.R1

priority-delta *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv4 monitor-oper-group**
Description	Delta priority with operation when operational group is active
Range	1 to 4294967295
Introduced	16.0.R1

multicast *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv4**
Description	Enable PIM interface operation
Default	true
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Enter the ipv6 context
Introduced	16.0.R1

monitor-oper-group

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv6**
Description	Enter the monitor-oper-group context
Introduced	16.0.R1

name *string*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv6 monitor-oper-group**
Description	Operational group to monitor for address family
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

operation *keyword*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv6 monitor-oper-group**
Description	Perform given operation when oper-group is active.
Options	add, subtract, set
Introduced	16.0.R1

priority-delta *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv6 monitor-oper-group**
Description	Delta priority with operation when operational group is active
Range	1 to 4294967295
Introduced	16.0.R1

multicast *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **ipv6**
Description	Enable PIM interface operation
Default	true
Introduced	16.0.R1

max-groups *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Max number of groups for which PIM can have local receiver information based on received PIM reports
Range	0 | 1 to 16000
Default	0
Introduced	16.0.R1

mcac

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Enter the mcac context
Introduced	16.0.R1

bandwidth

Context **configure service vprn** *service-name* **pim interface** *interface-name* **mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure service vprn** *service-name* **pim interface** *interface-name* **mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure service vprn** *service-name* **pim interface** *interface-name* **mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure service vprn** *service-name* **pim interface** *interface-name* **mcac**

Description Name for multicast CAC interface policy

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure service vprn** *service-name* **pim interface** *interface-name* **mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints**

Description Administrative state of constraint for multicast CAC policy

Default enable

Options enable, disable

Introduced 16.0.R1

level [level-id] *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints**
Description	Enter the level context
Introduced	16.0.R1

[level-id] *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth level ID for a multicast CAC constraint
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

bandwidth *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints level** *number*
Description	Bandwidth available for this level
Range	0 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

number-down [number-lag-port-down] *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints**
Description	Enter the number-down context
Introduced	16.0.R1

[number-lag-port-down] *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Number of LAG ports down
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

level *number*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints number-down** *number*
Description	Level associated with the number of LAG ports that are down
Range	1 to 8
Introduced	16.0.R1
Notes	This element is mandatory

use-lag-port-weight *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac mc-constraints**
Description	Use LAG port weight while calculating Multicast CAC constraints
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **pim interface** *interface-name* **mcac**
Description	Multicast CAC policy name
Reference	configure **mcac policy** *string*
Introduced	16.0.R1

multicast-senders *keyword*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Subnet matching for the incoming data packets
Default	auto
Options	auto, always, never
Introduced	16.0.R1

p2mp-ldp-tree-join

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Enter the p2mp-ldp-tree-join context
Introduced	16.0.R1

ipv4 *boolean*

Context **configure service vprn** *service-name* **pim interface** *interface-name* **p2mp-ldp-tree-join**
Description Allow dynamic mLDP in-band signaling for IPv4 PIM joins
Default false
Introduced 16.0.R1

ipv6 *boolean*

Context **configure service vprn** *service-name* **pim interface** *interface-name* **p2mp-ldp-tree-join**
Description Allow dynamic mLDP in-band signaling for IPv6 PIM joins
Default false
Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **pim interface** *interface-name*
Description DR election priority for this interface
Range 1 to max
Default 1
Introduced 16.0.R1

sticky-dr

Context **configure service vprn** *service-name* **pim interface** *interface-name*
Description Enter the sticky-dr context
Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **pim interface** *interface-name* **sticky-dr**
Description DR election priority for this interface
Range 1 to max
Default 1024
Introduced 16.0.R1

three-way-hello *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Allow three-way hello compatibility mode
Default	false
Introduced	16.0.R1

tracking-support *boolean*

Context	**configure service vprn** *service-name* **pim interface** *interface-name*
Description	Allow upstream routers to explicitly track join membership
Default	false
Introduced	16.0.R1

ipv4

Context	**configure service vprn** *service-name* **pim**
Description	Enter the ipv4 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim ipv4**
Description	Administrative state of PIM operation for IPv4
Default	enable
Options	enable, disable
Introduced	16.0.R1

grt-extranet

Context	**configure service vprn** *service-name* **pim ipv4**
Description	Enter the grt-extranet context
Introduced	16.0.R1

any

Context	**configure service vprn** *service-name* **pim ipv4 grt-extranet**
Description	GRT or VRF extranet for this instance
Introduced	16.0.R1
Notes	This element is part of a choice

group-prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **pim ipv4 grt-extranet**
Description	Enter the **group-prefix** context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **pim ipv4 grt-extranet group-prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address and mask length
Introduced	16.0.R1
Notes	This element is part of a choice This element is part of a list key

starg *boolean*

Context	**configure service vprn** *service-name* **pim ipv4 grt-extranet group-prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Add a static (*,G) entry
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

rpf-table *keyword*

Context	**configure service vprn** *service-name* **pim ipv4**
Description	Route table(s) for RPF lookup
Default	rtable-u
Options	rtable-m, rtable-u, both
Introduced	16.0.R1

ssm-assert-compatible-mode *boolean*

Context	**configure service vprn** *service-name* **pim ipv4**
Description	Enable SSM assert compatible mode
Default	false
Introduced	16.0.R1

ssm-default-range *boolean*

Context	**configure service vprn** *service-name* **pim ipv4**
Description	SSM default range
Default	true
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **pim**
Description	Enter the ipv6 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim ipv6**
Description	Administrative state of PIM operation for IPv6
Default	disable
Options	enable, disable
Introduced	16.0.R1

rpf-table *keyword*

Context	**configure service vprn** *service-name* **pim ipv6**
Description	Route table(s) for RPF lookup
Default	rtable-u
Options	rtable-m, rtable-u, both
Introduced	16.0.R1

ssm-default-range *boolean*

Context	**configure service vprn** *service-name* **pim ipv6**
Description	SSM default range
Default	true
Introduced	16.0.R1

mc-ecmp-balance *boolean*

Context	**configure service vprn** *service-name* **pim**
Description	Enable/disable multicast balancing of traffic over ECMP links.
Default	true
Introduced	16.0.R1

mc-ecmp-balance-hold *number*

Context	**configure service vprn** *service-name* **pim**
Description	Hold time for multicast balancing over ECMP links
Range	2 to 600
Units	minutes
Introduced	16.0.R1

mc-ecmp-hashing

Context	**configure service vprn** *service-name* **pim**
Description	Enter the mc-ecmp-hashing context
Introduced	16.0.R1

rebalance *boolean*

Context	**configure service vprn** *service-name* **pim mc-ecmp-hashing**
Description	Rebalance flows to newly added links immediately instead of waiting until they are pruned
Default	false
Introduced	16.0.R1

non-dr-attract-traffic *boolean*

Context	**configure service vprn** *service-name* **pim**
Description	Attract traffic when the router is not the designated one
Default	false
Introduced	16.0.R1

rp

Context	**configure service vprn** *service-name* **pim**
Description	Enter the rp context
Introduced	16.0.R1

bootstrap

Context	**configure service vprn** *service-name* **pim rp**
Description	Enter the bootstrap context
Introduced	16.0.R1

export *string*

Context	**configure service vprn** *service-name* **pim rp bootstrap**
Description	Name of the policy is limited to 32 characters.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

import *string*

Context	**configure service vprn** *service-name* **pim rp bootstrap**
Description	Name of the policy is limited to 32 characters.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

ipv4

Context **configure service vprn** *service-name* **pim rp**

Description Enter the ipv4 context

Introduced 16.0.R1

anycast [ipv4-address] *ipv4-unicast-address* rp-set-peer *ipv4-unicast-address*

Context **configure service vprn** *service-name* **pim rp ipv4**

Description Enter the anycast context

Introduced 16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **pim rp ipv4 anycast** *ipv4-unicast-address* **rp-set-peer** *ipv4-unicast-address*

Description Anycast RP address

Introduced 16.0.R1

Notes This element is part of a list key

rp-set-peer *ipv4-unicast-address*

Context **configure service vprn** *service-name* **pim rp ipv4 anycast** *ipv4-unicast-address* **rp-set-peer** *ipv4-unicast-address*

Description Configure a peer in the anycast rp-set.

Introduced 16.0.R1

Notes This element is part of a list key

auto-rp-discovery *boolean*

Context **configure service vprn** *service-name* **pim rp ipv4**

Description Enable auto RP discovery

Default false

Introduced 16.0.R1

bsr-candidate

Context **configure service vprn** *service-name* **pim rp ipv4**

Description Enter the bsr-candidate context

Introduced 16.0.R1

address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **pim rp ipv4 bsr-candidate**

Description Static bootstrap address of the router

Default 0.0.0.0

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **pim rp ipv4 bsr-candidate**

Description Administrative state for participation of router in bootstrap election

Default disable

Options enable, disable

Introduced 16.0.R1

hash-mask-len *number*

Context **configure service vprn** *service-name* **pim rp ipv4 bsr-candidate**

Description Length for bootstrap hash mask

Range 0 to 32

Default 30

Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **pim rp ipv4 bsr-candidate**

Description Bootstrap priority of the router

Range 0 to 255

Default 0

Introduced 16.0.R1

rp-candidate

Context	**configure service vprn** *service-name* **pim rp ipv4**
Description	Enter the rp-candidate context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv4 rp-candidate**
Description	Bootstrap address of router
Default	0.0.0.0
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim rp ipv4 rp-candidate**
Description	Administrative state for participation of router in bootstrap election
Default	disable
Options	enable, disable
Introduced	16.0.R1

group-range [ipv4-prefix] *ipv4-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv4 rp-candidate**
Description	Enter the group-range context
Introduced	16.0.R1

[ipv4-prefix] *ipv4-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv4 rp-candidate group-range** *ipv4-multicast-prefix*
Description	IPv4 address and mask
Introduced	16.0.R1
Notes	This element is part of a list key

holdtime *number*

Context	**configure service vprn** *service-name* **pim rp ipv4 rp-candidate**
Description	Time during which the neighboring router considers this router to be up
Range	5 to 255
Default	150
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure service vprn** *service-name* **pim rp ipv4 rp-candidate**
Description	Candidate RP priority
Range	0 to 255
Default	192
Introduced	16.0.R1

static

Context	**configure service vprn** *service-name* **pim rp ipv4**
Description	Enter the static context
Introduced	16.0.R1

address [ipv4-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv4 static**
Description	Enter the address context
Introduced	16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv4 static address** *ipv4-unicast-address*
Description	Configure the address of the statically configured RP.
Introduced	16.0.R1
Notes	This element is part of a list key

group-prefix [ipv4-prefix] *ipv4-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv4 static address** *ipv4-unicast-address*
Description	Enter the group-prefix context
Introduced	16.0.R1

[ipv4-prefix] *ipv4-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv4 static address** *ipv4-unicast-address* **group-prefix** *ipv4-multicast-prefix*
Description	IPv4 address and mask
Introduced	16.0.R1
Notes	This element is part of a list key

override *boolean*

Context	**configure service vprn** *service-name* **pim rp ipv4 static address** *ipv4-unicast-address*
Description	Change the precedence for static RP over dynamically learnt RP
Default	false
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **pim rp**
Description	Enter the ipv6 context
Introduced	16.0.R1

anycast [ipv6-address] *ipv6-unicast-address* **rp-set-peer** *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6**
Description	Enter the anycast context
Introduced	16.0.R1

[ipv6-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6 anycast** *ipv6-unicast-address* **rp-set-peer** *ipv6-unicast-address*
Description	Anycast RP address
Introduced	16.0.R1
Notes	This element is part of a list key

rp-set-peer *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6 anycast** *ipv6-unicast-address* **rp-set-peer** *ipv6-unicast-address*
Description	Configure a peer in the anycast rp-set.
Introduced	16.0.R1
Notes	This element is part of a list key

bsr-candidate

Context	**configure service vprn** *service-name* **pim rp ipv6**
Description	Enter the bsr-candidate context
Introduced	16.0.R1

address *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6 bsr-candidate**
Description	Bootstrap address of router
Default	::
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim rp ipv6 bsr-candidate**
Description	Administrative state for participation of router in bootstrap election
Default	disable
Options	enable, disable
Introduced	16.0.R1

hash-mask-len *number*

Context	**configure service vprn** *service-name* **pim rp ipv6 bsr-candidate**
Description	Length for bootstrap hash mask
Range	0 to 128
Default	126
Introduced	16.0.R1

priority *number*

Context	**configure service vprn** *service-name* **pim rp ipv6 bsr-candidate**
Description	Bootstrap priority of the router
Range	0 to 255
Default	0
Introduced	16.0.R1

embedded-rp

Context	**configure service vprn** *service-name* **pim rp ipv6**
Description	Enter the embedded-rp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim rp ipv6 embedded-rp**
Description	Administrative state of embedded RP
Default	disable
Options	enable, disable
Introduced	16.0.R1

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv6 embedded-rp**
Description	Enter the group-range context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv6 embedded-rp group-range** *ipv6-multicast-prefix*
Description	IPv6 address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

rp-candidate

Context	**configure service vprn** *service-name* **pim rp ipv6**
Description	Enter the rp-candidate context
Introduced	16.0.R1

address *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6 rp-candidate**
Description	Bootstrap address of router
Default	::
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **pim rp ipv6 rp-candidate**
Description	Administrative state for participation of router in bootstrap election
Default	disable
Options	enable, disable
Introduced	16.0.R1

group-range [ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv6 rp-candidate**
Description	Enter the group-range context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv6 rp-candidate group-range** *ipv6-multicast-prefix*
Description	IPv6 address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

holdtime *number*

Context	**configure service vprn** *service-name* **pim rp ipv6 rp-candidate**
Description	Time during which the neighboring router considers this router to be up
Range	5 to 255
Default	150
Units	seconds
Introduced	16.0.R1

priority *number*

Context	**configure service vprn** *service-name* **pim rp ipv6 rp-candidate**
Description	Candidate RP priority
Range	0 to 255
Default	192
Introduced	16.0.R1

static

Context	**configure service vprn** *service-name* **pim rp ipv6**
Description	Enter the static context
Introduced	16.0.R1

address [ipv6-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6 static**
Description	Enter the address context
Introduced	16.0.R1

[ipv6-address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **pim rp ipv6 static address** *ipv6-unicast-address*
Description	Configure the address of the statically configured RP.
Introduced	16.0.R1
Notes	This element is part of a list key

group-prefix [ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv6 static address** *ipv6-unicast-address*
Description	Enter the group-prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-multicast-prefix*

Context	**configure service vprn** *service-name* **pim rp ipv6 static address** *ipv6-unicast-address* **group-prefix** *ipv6-multicast-prefix*
Description	IPv6 address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

override *boolean*

Context	**configure service vprn** *service-name* **pim rp ipv6 static address** *ipv6-unicast-address*
Description	Change the precedence for static RP over dynamically learnt RP
Default	false
Introduced	16.0.R1

spt-switchover [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **pim**
Description	Enter the spt-switchover context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **pim spt-switchover** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

threshold (*number* | *keyword*)

Context	**configure service vprn** *service-name* **pim spt-switchover** (*ipv4-prefix* | *ipv6-prefix*)
Description	SPT switchover threshold
Range	1 to 4294967294
Units	kilobps
Options	infinity
Introduced	16.0.R1
Notes	This element is mandatory

ssm-groups

Context	**configure service vprn** *service-name* **pim**
Description	Enter the ssm-groups context
Introduced	16.0.R1

group-range [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **pim ssm-groups**
Description	Enter the group-range context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **pim ssm-groups group-range** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP address and mask length
Introduced	16.0.R1
Notes	This element is part of a list key

radius

Context	**configure service vprn** *service-name*
Description	Enter the radius context
Introduced	16.0.R1

proxy [name] *string*

Context	**configure service vprn** *service-name* **radius**
Description	Enter the proxy context
Max. Elements	8
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	RADIUS proxy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Administrative state of RADIUS proxy
Default	disable
Options	enable, disable
Introduced	16.0.R1

attribute-matching

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Enter the attribute-matching context
Introduced	16.0.R1

entry [index] *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching**

Description Enter the entry context

Introduced 16.0.R1

[index] *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching entry** *number*

Description Index of this entry

Range 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

accounting-server-policy *string*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching entry** *number*

Description Accounting server policy

String Length 1 to 32

Introduced 16.0.R1

authentication-server-policy *string*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching entry** *number*

Description Authentication server policy

String Length 1 to 32

Introduced 16.0.R1

prefix-string *string*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching entry** *number*

Description Prefix string

String Length 1 to 128

Introduced 16.0.R1

suffix-string *string*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching entry** *number*

Description Prefix string

String Length 1 to 128

Introduced 16.0.R1

type *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching**

Description Matching attribute type to RADIUS server policy

Range 1 to 255

Introduced 16.0.R1

vendor (*number* | *keyword*)

Context **configure service vprn** *service-name* **radius proxy** *string* **attribute-matching**

Description Matching Vendor ID to RADIUS server policy

Introduced 16.0.R1

cache

Context **configure service vprn** *service-name* **radius proxy** *string*

Description Enter the cache context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache**

Description Administrative state of the RADIUS proxy cache

Default disable

Options enable, disable

Introduced 16.0.R1

key

Context	**configure service vprn** *service-name* **radius proxy** *string* **cache**
Description	Enter the key context
Introduced	16.0.R1

attribute-type *number*

Context	**configure service vprn** *service-name* **radius proxy** *string* **cache key**
Description	RADIUS attribute type to cache for this RADIUS proxy server
Range	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

packet-type *keyword*

Context	**configure service vprn** *service-name* **radius proxy** *string* **cache key**
Description	Packet type of the RADIUS messages to generate the key for the cache of this RADIUS proxy server
Options	access-request, access-accept
Introduced	16.0.R1
Notes	This element is mandatory

vendor (*number* | *keyword*)

Context	**configure service vprn** *service-name* **radius proxy** *string* **cache key**
Description	RADIUS Vendor ID
Introduced	16.0.R1

timeout *number*

Context	**configure service vprn** *service-name* **radius proxy** *string* **cache**
Description	Idle timeout value
Range	60 to 3600
Default	300
Introduced	16.0.R1

track-accounting

Context **configure service vprn** *service-name* **radius proxy** *string* **cache**

Description Enter the track-accounting context

Introduced 16.0.R1

accounting-off *boolean*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache track-accounting**

Description Remove all ESM hosts associated with the RADIUS client

Default false

Introduced 16.0.R1

accounting-on *boolean*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache track-accounting**

Description Remove all ESM hosts associated with the RADIUS client

Default false

Introduced 16.0.R1

interim-update *boolean*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache track-accounting**

Description Update the ESM host with the RADIUS client that generated the interim update

Default false

Introduced 16.0.R1

start *boolean*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache track-accounting**

Description Update the ESM host with the RADIUS client that generated the accounting-start

Default false

Introduced 16.0.R1

stop *boolean*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache track-accounting**

Description Remove the ESM host and forward the accounting-stop packet to the external RADIUS server

Default false

Introduced 16.0.R1

track-authentication

Context **configure service vprn** *service-name* **radius proxy** *string* **cache**

Description Enter the track-authentication context

Introduced 16.0.R1

accept *boolean*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache track-authentication**

Description Track Access-Accept message for mobility

Default true

Introduced 16.0.R1

track-delete-hold-time *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **cache**

Description Delete hold time

Range 0 to 6000

Default 0

Introduced 16.0.R1

defaults

Context **configure service vprn** *service-name* **radius proxy** *string*

Description Enter the defaults context

Introduced 16.0.R1

accounting-server-policy *string*

Context	**configure service vprn** *service-name* **radius proxy** *string* **defaults**
Description	Default accounting RADIUS server policy
String Length	1 to 32
Introduced	16.0.R1

authentication-server-policy *string*

Context	**configure service vprn** *service-name* **radius proxy** *string* **defaults**
Description	Default authentication RADIUS server policy
String Length	1 to 32
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

interface [interface-name] *string*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Enter the interface context
Introduced	16.0.R1

[interface-name] *string*

Context	**configure service vprn** *service-name* **radius proxy** *string* **interface** *string*
Description	Specifies the interface name
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R1
Notes	This element is part of a list key

load-balance-key

Context **configure service vprn** *service-name* **radius proxy** *string*

Description Enter the load-balance-key context

Introduced 16.0.R1

attribute-1

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-1** context

Introduced 16.0.R1

type *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-1**

Description Attribute type to cache for this RADIUS Proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-1**

Description Vendor-Id attribute

Introduced 16.0.R1

Notes This element is part of a choice

attribute-2

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-2** context

Introduced 16.0.R1

type *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-2**
Description Attribute type to cache for this RADIUS Proxy server
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-2**
Description Vendor-Id attribute
Introduced 16.0.R1
Notes This element is part of a choice

attribute-3

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key**
Description Enter the **attribute-3** context
Introduced 16.0.R1

type *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-3**
Description Attribute type to cache for this RADIUS Proxy server
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-3**
Description Vendor-Id attribute
Introduced 16.0.R1
Notes This element is part of a choice

attribute-4

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-4** context

Introduced 16.0.R1

type *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-4**

Description Attribute type to cache for this RADIUS Proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

vendor (*number* | *keyword*)

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-4**

Description Vendor-Id attribute

Introduced 16.0.R1

Notes This element is part of a choice

attribute-5

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key**

Description Enter the **attribute-5** context

Introduced 16.0.R1

type *number*

Context **configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-5**

Description Attribute type to cache for this RADIUS Proxy server

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

vendor (*number* | *keyword*)

Context	**configure service vprn** *service-name* **radius proxy** *string* **load-balance-key attribute-5**
Description	Vendor-Id attribute
Introduced	16.0.R1
Notes	This element is part of a choice

source-ip-udp

Context	**configure service vprn** *service-name* **radius proxy** *string* **load-balance-key**
Description	Key to consist of the source IP address and source UDP port of the RADIUS message
Introduced	16.0.R1
Notes	This element is part of a choice

purpose *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Purpose of the RADIUS proxy
Options	accounting, authentication, accounting-authentication
Introduced	16.0.R1
Notes	This element is mandatory

python-policy *string*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Format of the secret key to access the RADIUS proxy server
String Length	1 to 114
Introduced	16.0.R1

send-accounting-response *boolean*

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Allow RADIUS proxy server to respond to Accounting-Response messages
Default	false
Introduced	16.0.R1

wlan-gw

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	Enter the wlan-gw context
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **radius proxy** *string* **wlan-gw**
Description	IP address of this RADIUS proxy server
Introduced	16.0.R1

ipv6-address *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **radius proxy** *string* **wlan-gw**
Description	IPv6 address of this RADIUS proxy server
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **radius proxy** *string*
Description	ISA WLAN gateway group
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

server [name] *string*

Context	**configure service vprn** *service-name* **radius**
Description	Enter the server context
Max. Elements	64
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	RADIUS server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

accept-coa *boolean*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	Allow the server to send Change of Authorization (CoA) messages
Default	false
Introduced	16.0.R1

acct-port *number*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	UDP port number of the RADIUS for accounting events
Range	1 to 65535
Default	1813
Introduced	16.0.R1

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **radius server** *string*
Description	IP address for server
Introduced	16.0.R1
Notes	This element is mandatory

auth-port *number*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	UDP port number of the RADIUS to be used as match criteria
Range	1 to 65535
Default	1812
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

pending-requests-limit *number*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	Limit of the number for pending RADIUS requests
Range	1 to 4096
Default	4096
Introduced	16.0.R1

python-policy *string*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	Python script policy to modify CoA messages
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure service vprn** *service-name* **radius server** *string*
Description	Secret key associated with this RADIUS server
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is mandatory

reassembly

Context	**configure service vprn** *service-name*
Description	Enter the reassembly context
Introduced	16.0.R1

nat-group *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **reassembly**
Description	NAT group (including WLAN Gateway group) that executes the reassembly
Introduced	16.0.R1
Notes	This element is mandatory

redundant-interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name*
Description	Enter the redundant-interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **redundant-interface** *interface-name*
Description	Name of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **redundant-interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name*

Description Text description

String Length 1 to 160

Introduced 16.0.R1

hold-time

Context **configure service vprn** *service-name* **redundant-interface** *interface-name*

Description Enter the hold-time context

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **hold-time**

Description Enter the ipv4 context

Introduced 16.0.R1

down

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **hold-time ipv4**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **hold-time ipv4 down**

Description Apply down delay only when interface is configured or after reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **hold-time ipv4 down**

Description Down hold time for the IP interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

up

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **hold-time ipv4**

Description Enter the up context

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **hold-time ipv4 up**

Description Up hold time for the IP interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

ip-mtu *number*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name*

Description Interface IP MTU

Range 512 to 9000

Units bytes

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **redundant-interface** *interface-name*

Description Enter the ipv4 context

Introduced 16.0.R1

primary

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **ipv4**

Description Enter the primary context

Introduced 16.0.R1

address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **ipv4 primary**

Description IPv4 address assigned to a redundant interface.

Introduced 16.0.R1

Notes This element is mandatory

prefix-length *number*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **ipv4 primary**

Description The prefix length 0..32 for IPv4 Address.

Range 0 to 32

Introduced 16.0.R1

Notes This element is mandatory

remote-ip *ipv4-unicast-address*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **ipv4 primary**

Description IP address of the remote redundant interface.

Introduced 16.0.R1

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name*

Description Enter the spoke-sdp context

Max. Elements 1

Introduced 16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Administrative state of this Service SDP binding
Default	enable
Options	enable, disable
Introduced	16.0.R1

control-word *boolean*

Context	**configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Use the control word as preferred
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **egress**

Description Static MPLS VC label that is used to send packets to the far end device through this SDP

Range 16 to 1048575

Introduced 16.0.R1

ingress

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

vc-label *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **redundant-interface** *interface-name* **spoke-sdp** *sdp-bind-id* **ingress**

Description Static MPLS VC label used by the far end device to send packets through this SDP

Range 1 to 1048575

Introduced 16.0.R1

rip

Context **configure service vprn** *service-name*

Description Enter the rip context

Introduced 16.0.R4

admin-state *keyword*

Context **configure service vprn** *service-name* **rip**

Description Administratively enable/disable the RIP instance.

Default enable

Options enable, disable

Introduced 16.0.R4

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **rip**
Description	Authentication or hash key string.
String Length	1 to 50
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure service vprn** *service-name* **rip**
Description	Authentication type to be used.
Default	none
Options	none, password, md5, md20
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **rip**
Description	Enable BFD monitoring of RIP peers.
Default	false
Introduced	16.0.R4

check-zero *boolean*

Context	**configure service vprn** *service-name* **rip**
Description	Check for zero values in must-be-zero fields.
Default	false
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **rip**
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-limit

Context	**configure service vprn** *service-name* **rip**
Description	Enter the export-limit context
Introduced	16.0.R4

log-percent *number*

Context	**configure service vprn** *service-name* **rip export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R4

number *number*

Context	**configure service vprn** *service-name* **rip export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R4
Notes	This element is mandatory

export-policy *string*

Context	**configure service vprn** *service-name* **rip**
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

group [group-name] *string*

Context	**configure service vprn** *service-name* **rip**
Description	Enter the group context
Introduced	16.0.R4

[group-name] *string*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	RIP group name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Administratively enable/disable the group.
Default	enable
Options	enable, disable
Introduced	16.0.R4

authentication-key *encrypted-leaf*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Authentication or hash key string.
String Length	1 to 50
Introduced	16.0.R4

authentication-type *keyword*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Authentication type to be used.
Options	none, password, md5, md20
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Enable BFD monitoring of RIP peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Apply export policies used to determine routes advertised to group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Apply import policies used to determine routes accepted from group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Metric added to routes exported into RIP.
Range	1 to 16
Introduced	16.0.R4

neighbor [interface-name] *interface-name*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Enter the neighbor context
Introduced	16.0.R4

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Interface name.
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Administratively enable/disable the neighbor.
Default	enable
Options	enable, disable
Introduced	16.0.R4

authentication-key *encrypted-leaf*

Context **configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*

Description Authentication or hash key string.

String Length 1 to 50

Introduced 16.0.R4

authentication-type *keyword*

Context **configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*

Description Authentication type to be used.

Options none, password, md5, md20

Introduced 16.0.R4

bfd-liveness *boolean*

Context **configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*

Description Enable BFD monitoring of RIP peers.

Introduced 16.0.R4

check-zero *boolean*

Context **configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*

Description Check for zero values in must-be-zero fields.

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*

Description Text description.

String Length 1 to 80

Introduced 16.0.R4

export-policy *string*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Apply export policies used to determine routes advertised to peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Apply import policies used to determine routes accepted from peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Metric added to routes exported into RIP.
Range	1 to 16
Introduced	16.0.R4

preference *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Route preference.
Range	1 to 255
Introduced	16.0.R4

receive *keyword*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Accepted version on received packets.
Options	version-1, version-2, both, none
Introduced	16.0.R4

send *keyword*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	RIP version and method used to send RIP updates.
Options	none, version-1, broadcast, multicast, unicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Enter the timers context
Introduced	16.0.R4

flush *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

unicast-address [address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name*
Description	Enter the unicast-address context
Introduced	16.0.R4

[address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **rip group** *string* **neighbor** *interface-name* **unicast-address** *ipv4-unicast-address*
Description	Create a unicast-address for the neighbor.
Introduced	16.0.R4
Notes	This element is part of a list key

preference *number*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Route preference.
Range	1 to 255
Introduced	16.0.R4

receive *keyword*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Accepted version on received packets.
Options	version-1, version-2, both, none
Introduced	16.0.R4

send *keyword*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	RIP version and method used to send RIP updates.
Options	none, version-1, broadcast, multicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure service vprn** *service-name* **rip group** *string*
Description	Enter the timers context
Introduced	16.0.R4

flush *number*

Context	**configure service vprn** *service-name* **rip group** *string* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **rip group** *string* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure service vprn** *service-name* **rip group** *string* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

import-policy *string*

Context	**configure service vprn** *service-name* **rip**
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context **configure service vprn** *service-name* **rip**

Description Maximum number of routes in message.

Range 25 to 255

Default 25

Introduced 16.0.R4

metric-in *number*

Context **configure service vprn** *service-name* **rip**

Description Metric added to routes from neighbor.

Range 1 to 16

Default 1

Introduced 16.0.R4

metric-out *number*

Context **configure service vprn** *service-name* **rip**

Description Metric added to routes exported into RIP.

Range 1 to 16

Default 1

Introduced 16.0.R4

preference *number*

Context **configure service vprn** *service-name* **rip**

Description Route preference.

Range 1 to 255

Default 100

Introduced 16.0.R4

propagate-metric *boolean*

Context **configure service vprn** *service-name* **rip**

Description Enable propagation of metric.

Default false

Introduced 16.0.R4

receive *keyword*

Context	**configure service vprn** *service-name* **rip**
Description	Accepted version on received packets.
Default	both
Options	version-1, version-2, both, none
Introduced	16.0.R4

send *keyword*

Context	**configure service vprn** *service-name* **rip**
Description	RIP version and method used to send RIP updates.
Default	broadcast
Options	none, version-1, broadcast, multicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure service vprn** *service-name* **rip**
Description	Enable split-horizon.
Default	true
Introduced	16.0.R4

timers

Context	**configure service vprn** *service-name* **rip**
Description	Enter the timers context
Introduced	16.0.R4

flush *number*

Context	**configure service vprn** *service-name* **rip timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **rip timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure service vprn** *service-name* **rip timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

ripng

Context	**configure service vprn** *service-name*
Description	Enter the ripng context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure service vprn** *service-name* **ripng**
Description	Administratively enable/disable the RIPng instance.
Default	enable
Options	enable, disable
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **ripng**
Description	Enable BFD monitoring of RIPng peers.
Default	false
Introduced	16.0.R4

check-zero *boolean*

Context	**configure service vprn** *service-name* **ripng**
Description	Check for zero values in must-be-zero fields.
Default	false
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **ripng**
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-limit

Context	**configure service vprn** *service-name* **ripng**
Description	Enter the export-limit context
Introduced	16.0.R1

log-percent *number*

Context	**configure service vprn** *service-name* **ripng export-limit**
Description	Export limit at which warning a log message and SNMP notification are sent
Range	1 to 100
Introduced	16.0.R4

number *number*

Context	**configure service vprn** *service-name* **ripng export-limit**
Description	Maximum number of routes or prefixes to be exported into IGP instance from route table
Range	1 to max
Introduced	16.0.R4
Notes	This element is mandatory

export-policy *string*

Context	**configure service vprn** *service-name* **ripng**
Description	Configure names of export policies to be used for determining which routes are exported from the routing table to this IGP.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

group [group-name] *string*

Context	**configure service vprn** *service-name* **ripng**
Description	Enter the group context
Introduced	16.0.R4

[group-name] *string*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	RIP group name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Administratively enable/disable the group.
Default	enable
Options	enable, disable
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Enable BFD monitoring of RIPng peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Apply export policies used to determine routes advertised to group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Apply import policies used to determine routes accepted from group peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Maximum number of routes in message.
Range	25 to 255
Introduced	16.0.R4

metric-in *number*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Metric added to routes from neighbor.
Range	1 to 16
Introduced	16.0.R4

metric-out *number*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Metric added to routes exported into RIPng.
Range	1 to 16
Introduced	16.0.R4

neighbor [interface-name] *string*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Enter the neighbor context
Introduced	16.0.R4

[interface-name] *string*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Interface name.
Reference	configure **service vprn** *service-name* **interface** *interface-name*
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Administratively enable/disable the neighbor.
Default	enable
Options	enable, disable
Introduced	16.0.R4

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Enable BFD monitoring of RIPng peers.
Introduced	16.0.R4

check-zero *boolean*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Check for zero values in must-be-zero fields.
Introduced	16.0.R4

description *string*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

export-policy *string*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Apply export policies used to determine routes advertised to peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

import-policy *string*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Apply import policies used to determine routes accepted from peers.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context **configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*

Description Maximum number of routes in message.

Range 25 to 255

Introduced 16.0.R4

metric-in *number*

Context **configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*

Description Metric added to routes from neighbor.

Range 1 to 16

Introduced 16.0.R4

metric-out *number*

Context **configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*

Description Metric added to routes exported into RIPng.

Range 1 to 16

Introduced 16.0.R4

preference *number*

Context **configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*

Description Route preference.

Range 1 to 255

Introduced 16.0.R4

receive *keyword*

Context **configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*

Description Accepted version on received packets.

Options none, ripng

Introduced 16.0.R4

send *keyword*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	RIPng version and method used to send RIPng updates.
Options	none, ripng, unicast
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Enter the timers context
Introduced	16.0.R1

flush *number*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

unicast-address [address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string*
Description	Enter the unicast-address context
Introduced	16.0.R4

[address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **ripng group** *string* **neighbor** *string* **unicast-address** *ipv6-unicast-address*
Description	Create a unicast-address for the neighbor.
Introduced	16.0.R4
Notes	This element is part of a list key

preference *number*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Route preference.
Range	1 to 255
Introduced	16.0.R4

receive *keyword*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Accepted version on received packets.
Options	none, ripng
Introduced	16.0.R4

send *keyword*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	RIPng version and method used to send RIPng updates.
Options	none, ripng
Introduced	16.0.R4

split-horizon *boolean*

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Enable split-horizon.
Introduced	16.0.R4

timers

Context	**configure service vprn** *service-name* **ripng group** *string*
Description	Enter the timers context
Introduced	16.0.R1

flush *number*

Context	**configure service vprn** *service-name* **ripng group** *string* **timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **ripng group** *string* **timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure service vprn** *service-name* **ripng group** *string* **timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

import-policy *string*

Context	**configure service vprn** *service-name* **ripng**
Description	Configure names of import policies to be used for determining which routes are imported from this IGP to the routing table.
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R4
Notes	This element is ordered by user

message-size *number*

Context	**configure service vprn** *service-name* **ripng**
Description	Maximum number of routes in message.
Range	25 to 255
Default	25
Introduced	16.0.R4

metric-in *number*

Context	**configure service vprn** *service-name* **ripng**
Description	Metric added to routes from neighbor.
Range	1 to 16
Default	1
Introduced	16.0.R4

metric-out *number*

Context **configure service vprn** *service-name* **ripng**

Description Metric added to routes exported into RIPng.

Range 1 to 16

Default 1

Introduced 16.0.R4

preference *number*

Context **configure service vprn** *service-name* **ripng**

Description Route preference.

Range 1 to 255

Default 100

Introduced 16.0.R4

receive *keyword*

Context **configure service vprn** *service-name* **ripng**

Description Accepted version on received packets.

Default ripng

Options none, ripng

Introduced 16.0.R4

send *keyword*

Context **configure service vprn** *service-name* **ripng**

Description RIPng version and method used to send RIPng updates.

Default ripng

Options none, ripng

Introduced 16.0.R4

split-horizon *boolean*

Context **configure service vprn** *service-name* **ripng**

Description Enable split-horizon.

Default true

Introduced 16.0.R4

timers

Context	**configure service vprn** *service-name* **ripng**
Description	Enter the timers context
Introduced	16.0.R1

flush *number*

Context	**configure service vprn** *service-name* **ripng timers**
Description	Controls the time a route remains in the routing table since it was declared invalid.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

timeout *number*

Context	**configure service vprn** *service-name* **ripng timers**
Description	Controls the amount of time before a route will be declared invalid in the routing table since the last time it was received from the peer.
Range	1 to 1200
Introduced	16.0.R4
Notes	This element is mandatory

update *number*

Context	**configure service vprn** *service-name* **ripng timers**
Description	Controls how often updates are sent.
Range	1 to 600
Introduced	16.0.R4
Notes	This element is mandatory

route-distinguisher (*keyword* | *vpn-route-distinguisher*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name*
Description Route distinguisher
Introduced 16.0.R1

router-id *router-id*

Context **configure service vprn** *service-name*
Description Unique router ID for the router in the Autonomous System
Introduced 16.0.R1

selective-fib *boolean*

Context **configure service vprn** *service-name*
Description Selective FIB
Default true
Introduced 16.0.R1

service-id *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vprn** *service-name*
Description Unique service ID; cannot be used by any other service, regardless of service type
Range 1 to 2147483647
Introduced 16.0.R1

sfm-overload

Context **configure service vprn** *service-name*
Description Enter the sfm-overload context
Introduced 16.0.R1

holdoff-time *number*

Context	**configure service vprn** *service-name* **sfm-overload**
Description	The delay between the detection of the SFM condition and the IGP entering the overload state.
Range	1 to 600
Units	seconds
Introduced	16.0.R3

sgt-qos

Context	**configure service vprn** *service-name*
Description	Enter the sgt-qos context
Introduced	16.0.R1

dot1p

Context	**configure service vprn** *service-name* **sgt-qos**
Description	Enter the dot1p context
Introduced	16.0.R1

application [dot1p-app-name] *keyword*

Context	**configure service vprn** *service-name* **sgt-qos dot1p**
Description	Enter the application context
Introduced	16.0.R1

[dot1p-app-name] *keyword*

Context	**configure service vprn** *service-name* **sgt-qos dot1p application** *keyword*
Description	Dot1p application identifier on the NOKIA SR OS router that generates control traffic over IP
Options	arp, isis, pppoe
Introduced	16.0.R1
Notes	This element is part of a list key

dot1p (*keyword* | *number*)

Context **configure service vprn** *service-name* **sgt-qos dot1p application** *keyword*

Description Dot1p value to the traffic generated by this application

Range 0 to 7

Introduced 16.0.R1

dscp

Context **configure service vprn** *service-name* **sgt-qos**

Description Enter the dscp context

Introduced 16.0.R1

application [dscp-app-name] *keyword*

Context **configure service vprn** *service-name* **sgt-qos dscp**

Description Enter the application context

Introduced 16.0.R1

[dscp-app-name] *keyword*

Context **configure service vprn** *service-name* **sgt-qos dscp application** *keyword*

Description DSCP application identifier on the NOKIA SR OS router that generates control traffic over IP

Options bgp, dhcp, dns, ftp, icmp, igmp, l2tp, ldp, mld, msdp, ndis, ntp, ospf, pim, radius, rip, rsvp, snmp, snmp-notification, srrp, ssh, syslog, tacplus, telnet, tftp, traceroute, vrrp, ptp, gtp, diameter, pcep, call-trace, bmp, grpc, mtrace2, http

Introduced 16.0.R1

Notes This element is part of a list key

dscp (*keyword* | *number*)

Context **configure service vprn** *service-name* **sgt-qos dscp application** *keyword*

Description DSCP value to the traffic generated by this application

Range 0 to 63

Introduced 16.0.R1

dscp-map [dscp-name] *keyword*

Context	**configure service vprn** *service-name* **sgt-qos dscp**
Description	Enter the dscp-map context
Introduced	16.0.R3

[dscp-name] *keyword*

Context	**configure service vprn** *service-name* **sgt-qos dscp dscp-map** *keyword*
Description	DSCP name mapped to forwarding class
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R2
Notes	This element is part of a list key

fc *keyword*

Context	**configure service vprn** *service-name* **sgt-qos dscp dscp-map** *keyword*
Description	Value for the forwarding class for this mapping
Options	be, l2, af, l1, h2, ef, h1, nc
Introduced	16.0.R2

snmp

Context	**configure service vprn** *service-name*
Description	Enter the **snmp** context
Introduced	16.0.R5

access *boolean*

Context	**configure service vprn** *service-name* **snmp**
Description	Enable/Disable SNMP access for the vprn service
Default	false
Introduced	16.0.R5

community [community-string] *encrypted-leaf*

Context	**configure service vprn** *service-name* **snmp**
Description	Enter the **community** context
Introduced	16.0.R5

[community-string] *encrypted-leaf*

Context	**configure service vprn** *service-name* **snmp community** *encrypted-leaf*
Description	Community string for which this entry represents a configuration. community-string - [64 chars max] hash-key - [113 chars max] hash2-key - [114 chars max]
String Length	1 to 114
Introduced	16.0.R5
Notes	This element is part of a list key

access-permissions *keyword*

Context	**configure service vprn** *service-name* **snmp community** *encrypted-leaf*
Description	Community string for which this entry represents a configuration.
Options	r, rw
Introduced	16.0.R5
Notes	This element is mandatory

source-access-list *string*

Context	**configure service vprn** *service-name* **snmp community** *encrypted-leaf*
Description	The context in which management information is accessed when using the community string.
Reference	configure **system security snmp source-access-list** *string*
Introduced	16.0.R5

version *keyword*

Context	**configure service vprn** *service-name* **snmp community** *encrypted-leaf*
Description	SNMP version.
Default	both
Options	v1, v2c, both
Introduced	16.0.R5

source-address

Context	**configure service vprn** *service-name*
Description	Enter the source-address context
Introduced	16.0.R1

ipv4 [application] *keyword*

Context	**configure service vprn** *service-name* **source-address**
Description	Enter the ipv4 context
Introduced	16.0.R1

[application] *keyword*

Context	**configure service vprn** *service-name* **source-address ipv4** *keyword*
Description	Source IP address for the application
Options	telnet, ssh, ping, traceroute, ntp, cflowd, ptp, icmp-error
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv4-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **source-address ipv4** *keyword*
Description	Source IPv4 address to be used in all packets sent by the application
Introduced	16.0.R1
Notes	This element is part of a choice

interface-name *interface-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **source-address ipv4** *keyword*
Description	Interface name whose IP address to be used in all packets sent by the application
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6 [application] *keyword*

Context	**configure service vprn** *service-name* **source-address**
Description	Enter the ipv6 context
Introduced	16.0.R1

[application] *keyword*

Context	**configure service vprn** *service-name* **source-address ipv6** *keyword*
Description	Source IPv6 address for the application
Options	telnet, ping, traceroute, cflowd, ntp, icmp6-error
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv6-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **source-address ipv6** *keyword*
Description	Source IPv6 address to be used in all packets sent by the application
Introduced	16.0.R1
Notes	This element is mandatory

spoke-sdp [sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name*
Description	Enter the spoke-sdp context
Introduced	16.0.R1

[sdp-bind-id] *sdp-bind-id*

Context	**configure service vprn** *service-name* **spoke-sdp** *sdp-bind-id*
Description	SDP Binding identifier as <sdp-id>:<vc-id>. sdp-id - [1..32767] vc-id - [1..4294967295].
String Length	3 to 16
Introduced	16.0.R3
Notes	This element is part of a list key

description *string*

Context	**configure service vprn** *service-name* **spoke-sdp** *sdp-bind-id*
Description	User-provided description for the SDP Bind
String Length	1 to 80
Introduced	16.0.R4

static-routes

Context	**configure service vprn** *service-name*
Description	Enter the static-routes context
Introduced	16.0.R1

hold-down

Context	**configure service vprn** *service-name* **static-routes**
Description	Enter the hold-down context
Introduced	16.0.R1

initial *number*

Context	**configure service vprn** *service-name* **static-routes hold-down**
Description	Value for the initial hold down time
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

max-value *number*

Context	**configure service vprn** *service-name* **static-routes hold-down**
Description	Maximum value of the hold down time
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

multiplier *number*

Context	**configure service vprn** *service-name* **static-routes hold-down**
Description	Value by which the previous hold-down time is multiplied to calculate the new one
Range	1 to 10
Introduced	16.0.R1
Notes	This element is mandatory

route [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Context	**configure service vprn** *service-name* **static-routes**
Description	Enter the route context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	IP prefix and prefix length for the static routes
Introduced	16.0.R1
Notes	This element is part of a list key

route-type *keyword*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Indicates the type of that static-route being configured, either for unicast routing or for use with multicast rpf.
Options	unicast, multicast
Introduced	16.0.R1
Notes	This element is part of a list key

blackhole

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Enter the blackhole context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Administrative state of the static route next hop

Options enable, disable

Introduced 16.0.R1

community *community*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Community ID associated with the static route

String Length 1 to 72

Introduced 16.0.R1

description *description-allow-all-white-spaces*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

generate-icmp *boolean*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Send ICMP unreachable messages when received packets match a static route with black-hole next-hop

Default false

Introduced 16.0.R1

metric *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

tag *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **blackhole**

Description Static route tag

Range 1 to max

Introduced 16.0.R1

community *community*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Community ID associated with the static route

String Length 1 to 72

Max. Elements 12

Introduced 16.0.R1

Notes This element is ordered by user

grt

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Enter the grt context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **grt**

Description Administrative state of the static route next hop

Options enable, disable

Introduced 16.0.R1

description *description-allow-all-white-spaces*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **grt**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

metric *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **grt**

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **grt**

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

indirect [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Enter the indirect context

Introduced 16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Indirect next hop for static routes

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Administrative state of the static route next hop

Options enable, disable

Introduced 16.0.R1

community *community*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Community ID associated with the static route

String Length 1 to 72

Introduced 16.0.R1

cpe-check [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the cpe-check context

Max. Elements 1

Introduced 16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description IP address of the target CPE device.

Introduced 16.0.R1

Notes This element is part of a list key

drop-count *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Number of consecutive ping replies that are missed before declaring the CPE down

Range 1 to 255

Default 3

Introduced 16.0.R1

interval *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Time between ICMP pings to the target CPE IP address

Range 1 to 255

Default 1

Units seconds

Introduced 16.0.R1

log *boolean*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Log the transitions between active and inactive based on the CPE connectivity check

Default false

Introduced 16.0.R1

padding-size *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Padding size for the ICMP ping test packet of the CPE connectivity check
Range	0 to 16384
Default	56
Units	bytes
Introduced	16.0.R1

description *description-allow-all-white-spaces*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination-class *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Destination class for this static route
Range	1 to 255
Introduced	16.0.R1

metric *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Static route metric
Range	0 to 65535
Default	1
Introduced	16.0.R1

preference *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the qos context

Introduced 16.0.R1

forwarding-class *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **qos**

Description Forwarding class associated with the static route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **qos**

Description Static route priority

Options low, high

Introduced 16.0.R1

source-class *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **indirect** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Static route tag

Range 1 to max

Introduced 16.0.R1

interface [interface-name] *interface-name*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Enter the interface context

Introduced 16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Router interface name.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Administrative state of the static route next hop
Options	enable, disable
Introduced	16.0.R1

community *community*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Community ID associated with the static route
String Length	1 to 72
Introduced	16.0.R1

cpe-check [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Enter the cpe-check context
Max. Elements	1
Introduced	16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description IP address of the target CPE device.

Introduced 16.0.R1

Notes This element is part of a list key

drop-count *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Number of consecutive ping replies that are missed before declaring the CPE down

Range 1 to 255

Default 3

Introduced 16.0.R1

interval *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Time between ICMP pings to the target CPE IP address

Range 1 to 255

Default 1

Units seconds

Introduced 16.0.R1

log *boolean*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Log the transitions between active and inactive based on the CPE connectivity check

Default false

Introduced 16.0.R1

padding-size *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Padding size for the ICMP ping test packet of the CPE connectivity check
Range	0 to 16384
Default	56
Units	bytes
Introduced	16.0.R1

description *description-allow-all-white-spaces*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination-class *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Destination class for this static route
Range	1 to 255
Introduced	16.0.R1

load-balancing-weight *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*
Description	Load-balancing weight for all of the ECMP next hops
Range	1 to max
Introduced	16.0.R1

metric *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Enter the qos context

Introduced 16.0.R1

forwarding-class *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **qos**

Description Forwarding class associated with the static route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name* **qos**

Description Static route priority

Options low, high

Introduced 16.0.R1

source-class *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **interface** *interface-name*

Description Static route tag

Range 1 to max

Introduced 16.0.R1

ipsec-tunnel [ipsec-tunnel-name] *string*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Enter the ipsec-tunnel context

Introduced 16.0.R1

[ipsec-tunnel-name] *string*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*

Description Ipsec tunnel name.

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

admin-state *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*

Description Administrative state of the static route next hop

Options enable, disable

Introduced 16.0.R1

community *community*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*

Description Community ID associated with the static route

String Length 1 to 72

Introduced 16.0.R1

description *description-allow-all-white-spaces*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

destination-class *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*
Description	Destination class for this static route
Range	1 to 255
Introduced	16.0.R1

metric *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*
Description	Static route metric
Range	0 to 65535
Default	1
Introduced	16.0.R1

preference *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*
Description	Priority of this static route over the routes from different sources
Range	1 to 255
Default	5
Introduced	16.0.R1

qos

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*

Description Enter the qos context

Introduced 16.0.R1

forwarding-class *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string* **qos**

Description Forwarding class associated with the static route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string* **qos**

Description Static route priority

Options low, high

Introduced 16.0.R1

source-class *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **ipsec-tunnel** *string*

Description Static route tag

Range 1 to max

Introduced 16.0.R1

next-hop [ip-address] (*ipv4-address* | *ipv6-address*)

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*
Description	Enter the next-hop context
Introduced	16.0.R1

[ip-address] (*ipv4-address* | *ipv6-address*)

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	IP address of the next-hop.
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Administrative state of the static route next hop
Options	enable, disable
Introduced	16.0.R1

bfd-liveness *boolean*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Use Bidirectional Forwarding Detection on this static route
Default	false
Introduced	16.0.R1

community *community*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Community ID associated with the static route
String Length	1 to 72
Introduced	16.0.R1

cpe-check [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)
Description	Enter the cpe-check context
Max. Elements	1
Introduced	16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	IP address of the target CPE device.
Introduced	16.0.R1
Notes	This element is part of a list key

drop-count *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Number of consecutive ping replies that are missed before declaring the CPE down
Range	1 to 255
Default	3
Introduced	16.0.R1

interval *number*

Context	**configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Time between ICMP pings to the target CPE IP address
Range	1 to 255
Default	1
Units	seconds
Introduced	16.0.R1

log *boolean*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Log the transitions between active and inactive based on the CPE connectivity check

Default false

Introduced 16.0.R1

padding-size *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **cpe-check** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Padding size for the ICMP ping test packet of the CPE connectivity check

Range 0 to 16384

Default 56

Units bytes

Introduced 16.0.R1

description *description-allow-all-white-spaces*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Text description

String Length 1 to 80

Introduced 16.0.R1

destination-class *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Destination class for this static route

Range 1 to 255

Introduced 16.0.R1

load-balancing-weight *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Load-balancing weight for all of the ECMP next hops

Range 1 to max

Introduced 16.0.R1

metric *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Static route metric

Range 0 to 65535

Default 1

Introduced 16.0.R1

preference *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Priority of this static route over the routes from different sources

Range 1 to 255

Default 5

Introduced 16.0.R1

prefix-list

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Enter the prefix-list context

Introduced 16.0.R1

flag *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **prefix-list**

Description Static route match condition from prefixes in specified prefix list

Default any

Options any, all, none

Introduced 16.0.R1

name *string*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **prefix-list**

Description Name of a prefix list to match

Reference configure **policy-options prefix-list** *string*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Enter the qos context

Introduced 16.0.R1

forwarding-class *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **qos**

Description Forwarding class associated with the static route

Options be, l2, af, l1, h2, ef, h1, nc

Introduced 16.0.R1

priority *keyword*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*) **qos**

Description Static route priority

Options low, high

Introduced 16.0.R1

source-class *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Source class for this static route

Range 1 to 255

Introduced 16.0.R1

tag *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Static route tag

Range 1 to max

Introduced 16.0.R1

validate-next-hop *boolean*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword* **next-hop** (*ipv4-address* | *ipv6-address*)

Description Track the state of the next hop in the IPv4 ARP Cache or the IPv6 Neighbor Cache

Default false

Introduced 16.0.R1

tag *number*

Context **configure service vprn** *service-name* **static-routes route** (*ipv4-prefix* | *ipv6-prefix*) **route-type** *keyword*

Description Static route tag

Range 1 to max

Introduced 16.0.R1

subscriber-interface [interface-name] *interface-name*

Context **configure service vprn** *service-name*

Description Enter the subscriber-interface context

Introduced 16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Administratively enable/disable the interface.
Default	enable
Options	enable, disable
Introduced	16.0.R4

arp-host

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Enter the arp-host context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **arp-host**
Description	Administrative state of ARP hosts
Default	enable
Options	enable, disable
Introduced	16.0.R1

host-limit *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **arp-host**
Description	Maximum number of ARP triggered hosts
Range	1 to 524287
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Description for the interface.
String Length	1 to 160
Introduced	16.0.R4

fwd-service *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Configure the forwarding service.
Reference	configure **service vprn** *service-name*
Introduced	16.0.R4

fwd-subscriber-interface *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Configure the forwarding subscriber interface.
Reference	configure **service vprn** *service-name* **subscriber-interface** *interface-name*
Introduced	16.0.R4

group-interface [group-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Enter the group-interface context
Introduced	16.0.R1

[group-interface-name] *interface-name*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Administrative state of the interface
Default	enable
Options	enable, disable
Introduced	16.0.R1

arp-host

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the arp-host context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**
Description	Administrative state of ARP hosts
Default	disable
Options	enable, disable
Introduced	16.0.R1

host-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**

Description Maximum number of ARP triggered hosts.

Range 1 to 524287

Default 1

Introduced 16.0.R1

min-auth-interval *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**

Description Minimal time that has to pass before incoming ARPs of an active ARP host are re-authenticated

Range 1 to 6000

Default 15

Units minutes

Introduced 16.0.R1

sap-host-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **arp-host**

Description Maximum number of ARP triggered hosts allowed per SAP

Range 1 to 131071

Default 1

Introduced 16.0.R1

bonding-parameters

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the bonding-parameters context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	Administrative state of ESM bonding
Default	disable
Options	enable, disable
Introduced	16.0.R1

connection [connection-index] *connection-index*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	Enter the connection context
Introduced	16.0.R1

[connection-index] *bonding-connection-index*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters connection** *connection-index*
Description	Bonding connection index
Range	1 to 2
Introduced	16.0.R4
Notes	This element is part of a list key

service *service-name*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters connection** *connection-index*
Description	Connection service
String Length	1 to 64
Introduced	16.0.R4

fpe *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	FPE that provisions bonding functionality
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R1

multicast

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters**
Description	Enter the multicast context
Introduced	16.0.R1

connection *multicast-bonding-connection*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **bonding-parameters multicast**
Description	Multicast connection
Default	use-incoming
Introduced	16.0.R1

brg

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the brg context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **brg**
Description	Administrative state of BRG
Default	disable
Options	enable, disable
Introduced	16.0.R1

authenticated-brg-only *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **brg**
Description	Allow BRGs that have been pre-authenticated
Default	false
Introduced	16.0.R1

default-brg-profile *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **brg**
Description	Default BRG profile that can be overridden during authentication
Reference	configure **subscriber-mgmt vrgw brg-profile** *string*
Introduced	16.0.R1

cflowd-parameters

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the cflowd-parameters context
Introduced	16.0.R4

sampling [sampling-type] *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters**

Description Enter the sampling context

Introduced 16.0.R4

[sampling-type] *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters sampling** *keyword*

Description Cflowd sampling type for virtual router interface

Options unicast, multicast

Introduced 16.0.R4

Notes This element is part of a list key

direction *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters sampling** *keyword*

Description The direction of the Cflowd analysis that is applied to the given interface.

Default ingress-only

Options ingress-only, egress-only, both

Introduced 16.0.R4

type *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **cflowd-parameters sampling** *keyword*

Description The type of Cflowd analysis that is applied to the given interface.

Options acl, interface

Introduced 16.0.R4

Notes This element is mandatory

data-trigger

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the data-trigger context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **data-trigger**

Description Administrative state of data triggered host creation

Default disable

Options enable, disable

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Text description

String Length 1 to 160

Introduced 16.0.R1

dynamic-routes-track-srrp

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the dynamic-routes-track-srrp context

Introduced 16.0.R1

hold-time *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **dynamic-routes-track-srrp**

Description Delay before updating the route state after the last SRRP transition

Range 1 to 50

Units deciseconds

Introduced 16.0.R1

gtp-parameters

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the gtp-parameters context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **gtp-parameters**

Description Administrative state of GTP Access

Default disable

Options enable, disable

Introduced 16.0.R1

fpe *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **gtp-parameters**

Description PE that provisions the GTP user interface

Reference configure **fwd-path-ext fpe** *number*

Introduced 16.0.R1

gx-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Diameter application policy

Reference configure **subscriber-mgmt diameter-gx-policy** *string*

Introduced 16.0.R1

ingress-stats *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Collect ingress interface statistics
Default	false
Introduced	16.0.R1

ip-mtu *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Interface IP MTU
Range	512 to 9000
Units	bytes
Introduced	16.0.R1

ipoe-linking

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the ipoe-linking context
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-linking**
Description	Administrative state of IPoE host linking
Default	disable
Options	enable, disable
Introduced	16.0.R1

gratuitous-router-advertisement *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-linking**
Description	Send unsolicited router advertisement after DHCP setup
Default	false
Introduced	16.0.R1

shared-circuit-id *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-linking**
Description	Block DHCPv6 with unknown interface-id (circuit-id) until a circuit-id is learned from DHCP.
Default	false
Introduced	16.0.R1

ipoe-session

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the ipoe-session context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Administrative state of IPoE session
Options	enable, disable
Introduced	16.0.R1

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

force-auth

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**

Description Enter the force-auth context

Introduced 16.0.R1

cid-change *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session force-auth**

Description Ignore min-auth-interval when circuit ID changed

Introduced 16.0.R1

rid-change *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session force-auth**

Description Ignore min-auth-interval when remote ID changed

Introduced 16.0.R1

ipoe-session-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**

Description IPoE Session policy to be used for new sessions

Reference configure **subscriber-mgmt ipoe-session-policy** *string*

Introduced 16.0.R1

min-auth-interval *ipoe-session-min-auth-interval*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Minimum time between two authentication attempts
Default	infinite
Units	seconds
Introduced	16.0.R1

radius-session-timeout *ipoe-session-radius-session-timeout*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Session timeout attribute to be interpreted
Options	absolute, ignore, backwards-compatible
Introduced	16.0.R1

sap-session-limit *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Maximum number of sessions per SAP
Range	1 to 131071
Introduced	16.0.R1

session-limit *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Maximum number of sessions on this group interface
Range	1 to 500000
Introduced	16.0.R1

stateless-redundancy *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Remove IPoE sessions when the system becomes stand-by in a stateless multi-chassis redundancy setup
Default	false
Introduced	16.0.R1

user-db *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipoe-session**
Description	Local user database that is used to (pre-)authenticate new sessions
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

ipv4

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the ipv4 context
Introduced	16.0.R1

dhcp

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**
Description	Enter the dhcp context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Administratively enable/disable DHCP.

Default disable

Options enable, disable

Introduced 16.0.R4

client-applications

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the client-applications context

Introduced 16.0.R4

dhcp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable DHCP as client application.

Default true

Introduced 16.0.R4

ppp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable PPP as client application.

Default false

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Add/remove a text description for DHCP.

String Length 1 to 80

Introduced 16.0.R4

filter *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description DHCP filter.

Reference configure **filter dhcp-filter** *number*

Introduced 16.0.R4

gi-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Configure the gateway interface address for the DHCP relay.

Introduced 16.0.R4

lease-populate

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

l2-header

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp lease-populate**

Description Enter the l2-header context

Introduced 16.0.R1

mac *mac-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp lease-populate l2-header**

Description Specify the MAC address.

Introduced 16.0.R4

max-leases *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp lease-populate**

Description The maximum number of DHCPv4 leases.

Range 1 to 511999

Default 1

Introduced 16.0.R4

match-circuit-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Configure match Opt82 circuit ID on relayed DHCP packets.

Default false

Introduced 16.0.R4

option-82

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the option-82 context

Introduced 16.0.R4

action *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**

Description What to do with DHCP option 82.

Default keep

Options replace, drop, keep

Introduced 16.0.R4

circuit-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the circuit-id context

Introduced 16.0.R4

ascii-tuple

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

ifindex

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use ifindex in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Do not include the circuit-id.

Introduced 16.0.R4

Notes This element is part of a choice

sap-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use SAP ID in the option.

Introduced 16.0.R4

Notes This element is part of a choice

vlan-ascii-tuple

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 circuit-id**

Description Use vlan-ascii-tuple in the option.

Introduced 16.0.R4

Notes This element is part of a choice

remote-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the remote-id context

Introduced 16.0.R4

ascii-string *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Use user-defined ASCII string in the option.

String Length 1 to 32

Introduced 16.0.R4

Notes This element is part of a choice

mac

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Use MAC address in the option.

Introduced 16.0.R4

Notes This element is part of a choice

none

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 remote-id**

Description Do not include the remote-id.

Introduced 16.0.R4

Notes This element is part of a choice

vendor-specific-option

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the vendor-specific-option context

Introduced 16.0.R4

client-mac-address *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

pool-name *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the pool name in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Enter the proxy-server context

Introduced 16.0.R4

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server**

Description Administrative state of DHCP proxy

Default disable

Options enable, disable

Introduced 16.0.R1

emulated-server *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server**

Description IP address used as the DHCP server address in the context of this service

Introduced 16.0.R1

lease-time

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server**

Description Enter the lease-time context

Introduced 16.0.R1

radius-override *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	Use lease time information provided by RADIUS server
Default	false
Introduced	16.0.R1

value *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	DHCP lease time
Range	300 to 315446399
Units	seconds
Introduced	16.0.R1

python-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Python policy.
Reference	configure **python python-policy** *string*
Introduced	16.0.R4

relay-proxy

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Enter the relay-proxy context
Introduced	16.0.R1

release-update-src-ip *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify whether or not to relay release messages.
Default	false
Introduced	16.0.R4

siaddr-override *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp relay-proxy**
Description	Specify the IP address to use.
Introduced	16.0.R4

server *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

trusted *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable relaying of untrusted packets.
Default	false
Introduced	16.0.R4

user-db *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 dhcp**

Description Configure the local user database to use for authentication.

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R4

icmp

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description Enter the icmp context

Introduced 16.0.R1

mask-reply *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Allow responses to ICMP mask requests

Default true

Introduced 16.0.R1

param-problem

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Enter the param-problem context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp param-problem**

Description Administrative state of sending parameter-problem messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp param-problem**

Description Number of parameter-problem ICMP messages to send in specified time interval

Range 10 to 1000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp param-problem**

Description Time used to limit number of parameter-problem ICMP messages issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

redirects

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Enter the redirects context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp redirects**

Description Administrative state of sending ICMP redirects

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp redirects**
Description	Maximum number of ICMP redirect messages to send
Range	10 to 1000
Default	100
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp redirects**
Description	Time to limit the number of ICMP redirect messages that can be issued
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

ttl-expired

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**
Description	Enter the ttl-expired context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp ttl-expired**
Description	Administrative state of sending TTL expired messages
Default	enable
Options	enable, disable
Introduced	16.0.R1

number *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp ttl-expired**

Description Maximum number of TTL expired messages to send

Range 10 to 2000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp ttl-expired**

Description Time to limit the number of ICMP TTL expired messages that can be issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

unreachables

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp**

Description Enter the unreachables context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp unreachables**

Description Administrative state of sending unreachable messages

Default enable

Options enable, disable

Introduced 16.0.R1

number *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp unreachables**

Description Maximum number of unreachable messages to send

Range 10 to 2000

Default 100

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 icmp unreachables**

Description Time to limit the number of unreachable messages that can be issued

Range 1 to 60

Default 10

Units seconds

Introduced 16.0.R1

neighbor-discovery

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

local-proxy-arp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**

Description Enable local proxy ARP on interface

Default true

Introduced 16.0.R1

populate *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Allow static and dynamic hosts to be populated in system ARP cache
Introduced	16.0.R1

proxy-arp-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Proxy ARP policy name
Reference	configure **policy-options policy-statement** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

remote-proxy-arp *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Enable remote proxy ARP on interface
Default	false
Introduced	16.0.R1

timeout *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 neighbor-discovery**
Description	Timeout for an ARP entry learned on the interface
Range	0 to 65535
Default	14400
Units	seconds
Introduced	16.0.R1

qos-route-lookup *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description QoS route lookup

Options destination

Introduced 16.0.R1

urpf-check

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4**

Description Enter the urpf-check context

Introduced 16.0.R1

mode *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv4 urpf-check**

Description Unicast RPF check mode

Default strict

Options strict, loose, strict-no-ecmp

Introduced 16.0.R1

ipv6

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the ipv6 context

Introduced 16.0.R1

allow-multiple-wan-addresses *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Configure if the interface will accept multiple WAN addresses.

Default false

Introduced 16.0.R4

auto-reply

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enter the auto-reply context

Introduced 16.0.R1

neighbor-solicitation *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 auto-reply**

Description Enable auto-reply for NS

Default false

Introduced 16.0.R1

router-solicitation *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 auto-reply**

Description Enable auto-reply for RS

Default false

Introduced 16.0.R1

dhcp6

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enter the dhcp6 context

Introduced 16.0.R1

filter *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description DHCPv6 filter

Reference configure **filter dhcp6-filter** *number*

Introduced 16.0.R1

option

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Enter the option context

Introduced 16.0.R1

interface-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option**

Description Enter the interface-id context

Introduced 16.0.R1

ascii-tuple

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**

Description Use ASCII-encoded concatenated tuple in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

if-index

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**

Description Use interface index in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

sap-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**

Description Use SAP ID in interface ID option in DHCPv6 relay packet

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option interface-id**
Description	String for interface ID option in DHCPv6 relay packet
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 option**
Description	Allow remote ID option to be sent in the DHCPv6 relay packet
Default	false
Introduced	16.0.R1

override-slaac *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Allow WAN address offered by DHCP to overwrite the WAN address acquired from SLAAC
Default	false
Introduced	16.0.R1

pd-managed-route

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the pd-managed-route context
Introduced	16.0.R1

next-hop *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 pd-managed-route**
Description	Next hop type
Default	ipv6
Options	ipv4, ipv6
Introduced	16.0.R1

proxy-server

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the proxy-server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Administrative state of DHCPv6 proxy server
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Enter the client-applications context
Introduced	16.0.R1

dhcp *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**
Description	Allow the DHCP application to make use of the DHCP relay functionality on this interface.
Default	true
Introduced	16.0.R1

ppp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**

Description Allow the PPP application to use DHCP relay functionality

Default false

Introduced 16.0.R1

preferred-lifetime *dhcp6-prefix-lifetime*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Time for prefix to remain preferred on this interface

Default 3600

Introduced 16.0.R1

rebind-timer *dhcp6-rebind-timer*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Rebind timer (T2) for this interface

Range 0 to 1209600

Introduced 16.0.R1

renew-timer *dhcp6-renew-timer*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Renew timer (T1)

Range 0 to 604800

Introduced 16.0.R1

server-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**

Description Enter the server-id context

Introduced 16.0.R1

duid-en-ascii *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as an ASCII string
String Length	1 to 58
Introduced	16.0.R1
Notes	This element is part of a choice

duid-en-hex *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as a hexadecimal string
String Length	1 to 118
Introduced	16.0.R1
Notes	This element is part of a choice

duid-ll

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Use link-layer address (DUID-LL) as DUID
Introduced	16.0.R1
Notes	This element is part of a choice

valid-lifetime *dhcp6-prefix-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Time for prefix to remain valid on this interface
Default	86400
Introduced	16.0.R1

python-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Python policy

Reference configure **python python-policy** *string*

Introduced 16.0.R1

relay

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Enter the relay context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**

Description Administrative state of DHCvP6 relay

Default disable

Options enable, disable

Introduced 16.0.R1

client-applications

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**

Description Enter the client-applications context

Introduced 16.0.R1

dhcp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay client-applications**

Description Allow the DHCP application to make use of the DHCP relay functionality on this interface.

Default true

Introduced 16.0.R1

ppp *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay client-applications**
Description	Allow the PPP application to use DHCP relay functionality
Default	false
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

link-address *ipv6-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Link address for the DHCPv6 relay messages
Introduced	16.0.R1

server *ipv6-address-with-zone*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**
Description	DHCP6 server(s) to which the DHCP6 requests are forwarded
Max. Elements	8
Introduced	16.0.R1
Notes	This element is ordered by user

source-address *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Source IPv6 address for the DHCPv6 relay messages
Introduced	16.0.R1

snooping

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Enter the snooping context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6 snooping**

Description Enable/disable DHCP6 snooping

Default disable

Options enable, disable

Introduced 16.0.R1

user-db *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description Assign a local user database.

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R1

user-ident *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 dhcp6**

Description DHCP6 user identification for this interface

Default mac

Options mac, mac-interface-id

Introduced 16.0.R1

ipoe-bridged-mode *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enable/Disable IPv6 IPoE Bridged Mode.

Default false

Introduced 16.0.R4

neighbor-discovery

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description Enter the neighbor-discovery context

Introduced 16.0.R1

dad-snooping *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 neighbor-discovery**

Description Duplicate address detection packets that are snooped to populate new neighbor entries for SLAAC hosts

Default false

Introduced 16.0.R1

neighbor-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 neighbor-discovery**

Description Maximum number of neighbor entries learned per SLAAC host

Range 1 to 8

Default 1

Introduced 16.0.R1

qos-route-lookup *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**

Description QoS route lookup

Options destination

Introduced 16.0.R1

router-advertisements

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**
Description	Enter the router-advertisements context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Administrative state of router advertisement
Default	disable
Options	enable, disable
Introduced	16.0.R1

force-mcast *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Send router advertisement to a multicast address instead of unicast for IPoE
Options	ip, ip-mac
Introduced	16.0.R1

max-advertisement-interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Maximum advertisement interval
Range	900 to 1800
Default	1800
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**

Description Minimum advertisement interval

Range 900 to 1350

Default 900

Units seconds

Introduced 16.0.R1

options

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**

Description Enter the options context

Introduced 16.0.R1

current-hop-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**

Description Hop limit to be advertised

Range 0 to 255

Default 64

Introduced 16.0.R1

dns

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**

Description Enter the dns context

Introduced 16.0.R1

include-rdnss *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options dns**

Description Include the RDNSS server option 25

Default false

Introduced 16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options dns**

Description Maximum time for the RDNSS address to remain valid

Range 900 to 3600

Default 3600

Units seconds

Options infinite

Introduced 16.0.R1

managed-configuration *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**

Description Managed address configuration flag

Default false

Introduced 16.0.R1

mtu (*number* | *keyword*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**

Description Advertised MTU value

Range 1280 to 9212

Default not-included

Units bytes

Options not-included

Introduced 16.0.R1

other-stateful-configuration *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Other stateful configuration flag
Default	false
Introduced	16.0.R1

reachable-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery reachable time that is advertised for this group interface
Range	0 to 3600000
Default	0
Units	milliseconds
Introduced	16.0.R1

retransmit-timer *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery retrasnmit timer that is advertised for this group interface
Range	0 to 1800000
Default	0
Units	seconds
Introduced	16.0.R1

router-lifetime (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements options**
Description	Router lifetime
Range	2700 to 9000
Default	4500
Units	seconds
Options	no-default-router
Introduced	16.0.R1

prefix-options

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements**
Description	Enter the prefix-options context
Introduced	16.0.R1

autonomous *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Value of the autonomous flag
Default	false
Introduced	16.0.R1

on-link *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Assign the prefix to an interface on the specified link
Default	true
Introduced	16.0.R1

preferred-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain preferred
Default	3600
Units	seconds
Introduced	16.0.R1

valid-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain valid
Default	86400
Units	seconds
Introduced	16.0.R1

router-solicit

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**
Description	Enter the router-solicit context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Administrative state of router-solicit based authentication
Default	disable
Options	enable, disable
Introduced	16.0.R1

inactivity-timer (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Timebefore an inactive host is removed
Range	1 to 31536000
Default	300
Units	seconds
Options	infinite
Introduced	16.0.R1

min-auth-interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Minimum interval between two consecutive authentication attempts for the same host
Range	1 to 360000
Default	300
Units	seconds
Introduced	16.0.R1

user-db *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 router-solicit**
Description	Local user-database that is used for router solicit based authentication
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

urpf-check

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6**
Description	Enter the urpf-check context
Introduced	16.0.R1

mode *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **ipv6 urpf-check**
Description	Unicast RPF check mode
Default	strict
Options	strict, loose, strict-no-ecmp
Introduced	16.0.R1

local-address-assignment

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the local-address-assignment context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment**

Description Administrative state of local address assignment

Default disable

Options enable, disable

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment**

Description Enter the ipv4 context

Introduced 16.0.R1

client-applications

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4**

Description Enter the client-applications context

Introduced 16.0.R1

ipoe *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4 client-applications**

Description Request local addresses for non-DHCP/managed IPoE hosts

Default false

Introduced 16.0.R1

ppp *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4 client-applications**
Description	Request local addresses for PPP IPCP hosts
Default	false
Introduced	16.0.R1

default-pool *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4**
Description	Default pools
String Length	1 to 32
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

server *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv4**
Description	Local DHCP server that contains pools for local address assignment
Reference	configure **service vprn** *service-name* **dhcp-server dhcpv4** *string*
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment**
Description	Enter the ipv6 context
Introduced	16.0.R1

client-applications

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6**
Description	Enter the client-applications context
Introduced	16.0.R1

ipoe-slaac *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for IPoE SLAAC hosts

Default false

Introduced 16.0.R1

ipoe-wan *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for IPoE IA NA hosts

Default false

Introduced 16.0.R1

ppp-slaac *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for PPP SLAAC hosts

Default false

Introduced 16.0.R1

server *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **local-address-assignment ipv6**

Description Local DHCPv6 server that contains pools for local address assignment

Reference configure **service vprn** *service-name* **dhcp-server dhcpv6** *string*

Introduced 16.0.R1

mac *mac-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description MAC address for the interface

Introduced 16.0.R1

nasreq-auth-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Diameter NASREQ application policy to use for authentication
Reference	configure **subscriber-mgmt diameter-nasreq-policy** *string*
Introduced	16.0.R1

oper-up-while-empty *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enable this group interface without any active SAPs
Default	false
Introduced	16.0.R1

pppoe

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the pppoe context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Administrative state of PPPoE
Default	disable
Options	enable, disable
Introduced	16.0.R1

anti-spoof *pppoe-anti-spoof*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	PPPoE anti-spoof filtering
Default	mac-sid
Options	mac-sid, mac-sid-ip
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	PPPoE policy
Reference	configure **subscriber-mgmt ppp-policy** *string*
Introduced	16.0.R1

python-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**
Description	Python policy used to modify PPPoE packets
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

sap-session-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**

Description Maximum PPPoE sessions per SAP

Range 1 to 131071

Default 1

Introduced 16.0.R1

session-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**

Description Maximum PPPoE sessions

Range 1 to 262143

Default 1

Introduced 16.0.R1

user-db *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **pppoe**

Description Local user database for authentication

Reference configure **subscriber-mgmt local-user-db** *string*

Introduced 16.0.R1

radius-auth-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description RADIUS authentication policy

Reference configure **subscriber-mgmt radius-authentication-policy** *string*

Introduced 16.0.R1

redundant-interface *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Redundant interface
Reference	configure **service vprn** *service-name* **redundant-interface** *interface-name*
Introduced	16.0.R1

sap [sap-id] *sap*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the sap context
Introduced	16.0.R1

[sap-id] *sap*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	SAP identifier
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Accounting policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Administrative state of the SAP
Default	enable
Options	enable, disable
Introduced	16.0.R1

anti-spoof *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Type of anti-spoof filtering
Default	source-ip-and-mac-addr
Options	source-ip-addr, source-ip-and-mac-addr, next-hop-ip-and-mac-addr
Introduced	16.0.R1

calling-station-id *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Calling station ID
String Length	1 to 64
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Collect accounting statistics
Default	false
Introduced	16.0.R1

cpu-protection

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the cpu-protection context
Introduced	16.0.R1

eth-cfm-monitoring

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**
Description	Enter the **eth-cfm-monitoring** context
Introduced	16.0.R1

aggregate

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**

Description Apply rate limit to the sum of the per peer packet rates

Introduced 16.0.R1

Notes This element is part of a choice

car

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection eth-cfm-monitoring**

Description Eth-CFM packets to be ignored when enforcing overall rate

Introduced 16.0.R1

Notes This element is part of a choice

ip-src-monitoring

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**

Description Enable IP source monitoring for CPU protection

Introduced 16.0.R1

Notes This element is part of a choice

mac-monitoring

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**

Description Monitor MAC for CPU protection

Introduced 16.0.R1

Notes This element is part of a choice

policy-id *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **cpu-protection**

Description CPM protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R4

default-host

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the default-host context

Introduced 16.0.R1

ipv4 [address] *string* prefix-length *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host**

Description Enter the ipv4 context

Introduced 16.0.R1

[address] *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv4** *string* **prefix-length** *number*

Description IPv4 default host address.

Reference configure **service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*

Introduced 16.0.R1

Notes This element is part of a list key

prefix-length *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv4** *string* **prefix-length** *number*

Description IPv4 address prefix length

Range 0 to 32

Introduced 16.0.R1

Notes This element is part of a list key

next-hop *ipv4-unicast-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv4** *string* **prefix-length** *number*
Description	Next-hop used to forward default-host traffic on this SAP.
Introduced	16.0.R1
Notes	This element is mandatory

ipv6 [address] *ipv6-unicast-address* **prefix-length** *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host**
Description	Enter the ipv6 context
Introduced	16.0.R1

[address] *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv6** *ipv6-unicast-address* **prefix-length** *number*
Description	IPv6 default host address.
Introduced	16.0.R1
Notes	This element is part of a list key

prefix-length *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv6** *ipv6-unicast-address* **prefix-length** *number*
Description	IPv6 default host prefix length.
Range	0 to 128
Introduced	16.0.R1
Notes	This element is part of a list key

next-hop *ipv6-unicast-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **default-host ipv6** *ipv6-unicast-address* **prefix-length** *number*
Description	Next-hop used to forward default-host traffic on this SAP.
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Distributed CPU protection policy for SAP
Reference	configure **system security dist-cpu-protection policy** *string*
Introduced	16.0.R1

egress

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the egress context
Introduced	16.0.R1

agg-rate

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress**
Description	Enter the agg-rate context
Introduced	16.0.R1

limit-unused-bandwidth *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Enable aggregate rate overrun protection

Default false

Introduced 16.0.R1

queue-frame-based-accounting *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Enable frame-based accounting on all policers and queues associated with context

Default false

Introduced 16.0.R1

rate *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress agg-rate**

Description Maximum total rate of all egress queues in kbps.

Range 1 to 3200000000

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress filter**

Description MAC filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress**

Description Enter the qos context

Introduced 16.0.R1

policer-control-policy

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

qinq-mark-top-only *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Mark top Q-tags

Default false

Introduced 16.0.R1

sap-egress

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the sap-egress context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos sap-egress**

Description Policy identifier

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

scheduler-policy

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **egress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

eth-cfm

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the eth-cfm context

Introduced 16.0.R1

collect-lmm-fc-stats

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Enter the collect-lmm-fc-stats context
Introduced	16.0.R1

fc *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Forwarding class name for which to create an individual profile-unaware counter
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

fc-in-profile *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm collect-lmm-fc-stats**
Description	Individual counters to create for the specified Forwarding Class
Options	be, l2, af, l1, h2, ef, h1, nc
Max. Elements	8
Introduced	16.0.R1

collect-lmm-stats *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Collect statistics for OAM-PM Loss Measurement Message (LMM) tests
Default	false
Introduced	16.0.R1

mep md-admin-name *string* ma-admin-name *string* mep-id *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	Enter the mep context
Introduced	16.0.R1

md-admin-name *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique domain name
Reference	configure **eth-cfm domain** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

ma-admin-name *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Unique association name
Reference	configure **eth-cfm domain** *admin-name* **association** *admin-name*
Introduced	16.0.R1
Notes	This element is part of a list key

mep-id *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Maintenance association end point identifier
Range	1 to 8191
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Administrative state of the MEP
Default	disable
Options	enable, disable
Introduced	16.0.R1

ais *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Generate AIS frames from the Maintenance Entity Group (MEG).
Default	false
Introduced	16.0.R1

alarm-notification

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the alarm-notification context
Introduced	16.0.R1

fng-alarm-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

fng-reset-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **alarm-notification**
Description	Time to expire before a Fault Notification Generation (FNG) alarm is reset
Range	250 | 500 | 1000
Units	centiseconds
Introduced	16.0.R1

ccm *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Generate CCM messages

Default false

Introduced 16.0.R1

ccm-ltm-priority *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Priority of CCM and LTM messages transmitted by the MEP

Range 0 to 7

Default 7

Introduced 16.0.R1

ccm-padding-size *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Additional octets inserted into CCM PDU for data TLV padding

Range 3 to 1500

Introduced 16.0.R1

csf

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the csf context

Introduced 16.0.R1

multiplier *decimal-number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **csf**
Description	Receive period multiplier to time out CSF
Range	0.0 | 2.0 to 30.0
Default	3.5
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-test

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Enter the eth-test context
Introduced	16.0.R1

bit-error-threshold *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**
Description	Lowest priority defect threshold for the bit error trap to generate a fault alarm
Range	0 to 11840
Default	1
Units	bit errors
Introduced	16.0.R1

test-pattern

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test**

Description Enter the test-pattern context

Introduced 16.0.R1

crc-tlv *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Generate a CRC checksum

Default false

Introduced 16.0.R1

pattern *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **eth-test test-pattern**

Description Test pattern for eth-test frames

Default all-zeros

Options all-zeros, all-ones

Introduced 16.0.R1

fault-propagation *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Fault propagation for the MEP

Options use-if-status-tlv, suspend-ccm

Introduced 16.0.R1

grace

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*

Description Enter the grace context

Introduced 16.0.R1

eth-ed

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**

Description Enter the eth-ed context

Introduced 16.0.R1

max-rx-defect-window *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Value to compare to received peer value, lower is used as maximum ETH-ED expected defect window

Range 1 to 86400

Units seconds

Introduced 16.0.R1

priority *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**

Description Transmission priority for ETH-ED PDUs

Range 0 to 7

Introduced 16.0.R1

rx-eth-ed *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Receive and process ETH-ED PDUs
Default	true
Introduced	16.0.R1

tx-eth-ed *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-ed**
Description	Transmit ETH-ED PDUs
Default	false
Introduced	16.0.R1

eth-vsm-grace

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace**
Description	Enter the eth-vsm-grace context
Introduced	16.0.R1

rx-eth-vsm-grace *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the reception and processing of the Nokia ETH-CFM Grace PDU on the MEP
Default	true
Introduced	16.0.R1

tx-eth-vsm-grace *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number* **grace eth-vsm-grace**
Description	Allow the transmission of the Nokia ETH-CFM Grace PDU from the MEP
Default	true
Introduced	16.0.R1

low-priority-defect *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Lowest priority defect that is allowed to generate a fault alarm
Default	mac-rem-err-xcon
Options	all-def, mac-rem-err-xcon, rem-err-xcon, err-xcon, xcon, no-xcon
Introduced	16.0.R1

one-way-delay-threshold *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm mep md-admin-name** *string* **ma-admin-name** *string* **mep-id** *number*
Description	Threshold for one way delay test
Range	0 to 600
Default	3
Units	seconds
Introduced	16.0.R1

squelch-ingress-levels *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **eth-cfm**
Description	ETH-CFM PDUs to be silently discarded
Range	0 to 7
Max. Elements	8
Introduced	16.0.R1

fwd-wholesale

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the fwd-wholesale context

Introduced 16.0.R1

pppoe-service *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **fwd-wholesale**

Description PPPoE service name

Reference configure **service epipe** *service-name*

Introduced 16.0.R1

host-admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Administrative state of hosts

Default enable

Options enable, disable

Introduced 16.0.R1

host-lockout-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Host lockout policy

Reference configure **subscriber-mgmt host-lockout-policy** *string*

Introduced 16.0.R1

igmp-host-tracking

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the igmp-host-tracking context

Introduced 16.0.R1

expiry-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Time during which the system continues to track inactive hosts
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

import-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Maximum number of multicast groups to be tracked per group
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**
Description	Maximum number of multicast groups to be tracked
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**

Description Maximum number of multicast sources to be tracked

Range 1 to 1000

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **igmp-host-tracking**

Description Enable IGMP router alert check option

Default true

Introduced 16.0.R1

ingress

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress filter**

Description IP filter ID

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6 *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress filter**

Description IPv6 filter identifier

Reference configure **filter ipv6-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress**

Description Enter the qos context

Introduced 16.0.R1

match-qinq-dot1p *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Ingress match QinQ Dot1p

Options top, bottom

Introduced 16.0.R1

policer-control-policy

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos policer-control-policy**

Description Policer control policy name

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

sap-ingress

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the sap-ingress context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Policy identifier

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R1

queuing-type *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos sap-ingress**

Description Ingress queuing type

Options shared, multipoint-shared

Introduced 16.0.R4

scheduler-policy

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos**

Description Enter the scheduler-policy context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **ingress qos scheduler-policy**

Description Scheduler policy name

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

lag

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the lag context

Introduced 16.0.R1

link-map-profile *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag**

Description LAG link map profile applied to a SAP or network interface

Range 1 to 64

Introduced 16.0.R1

per-link-hash

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag**

Description Enter the per-link-hash context

Introduced 16.0.R1

class *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag per-link-hash**

Description Class used on LAG egress when using weighted per-link-hash

Range 1 to 3

Default 1

Introduced 16.0.R1

weight *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **lag per-link-hash**

Description Weight used on LAG egress when using weighted per-link-hash

Range 1 to 1024

Default 1

Introduced 16.0.R1

monitor-oper-group *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Monitor operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

multi-service-site *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Multi service site name
String Length	1 to 32
Introduced	16.0.R1

oper-group *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Operational group
Reference	configure **service oper-group** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

static-host

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Description	Enter the static-host context
Introduced	16.0.R1

ipv4 [ip] *ipv4-unicast-address* **mac** *mac-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host**
Description	Enter the ipv4 context
Introduced	16.0.R1

[ip] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	IP address used by the static host.
Introduced	16.0.R1
Notes	This element is part of a list key

mac *mac-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	MAC address of the static host.
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	Administrative state of the static host
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp-string *ancp-string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

managed-route [prefix] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	Enter the managed-route context
Max. Elements	16
Introduced	16.0.R4

[prefix] *ipv4-unicast-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address* **managed-route** *ipv4-unicast-prefix*
Description	Managed route prefix.
Introduced	16.0.R4
Notes	This element is part of a list key

rip-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*
Description	RIP policy name
Reference	configure **subscriber-mgmt rip-policy** *string*
Introduced	16.0.R1

shcv

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Enter the shcv context

Introduced 16.0.R4

sla-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description SLA profile name

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Sub-profile name

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address*

Description Enter the subscriber-id context

Introduced 16.0.R1

string *subscriber-id*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Subscriber identification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

use-sap-id

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv4** *ipv4-unicast-address* **mac** *mac-unicast-address* **subscriber-id**
Description	Use the SAP id as subscriber ID
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6 [prefix] *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host**
Description	Enter the ipv6 context
Introduced	16.0.R1

[prefix] *ipv6-unicast-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	IPv6 prefix
Introduced	16.0.R1
Notes	This element is part of a list key

mac *mac-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	MAC address
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	Administrative state of the static host
Default	disable
Options	enable, disable
Introduced	16.0.R1

ancp-string *ancp-string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

mac-linking *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	IPv6 host associated with the IPv4 host through the learned MAC address
Introduced	16.0.R1

managed-route [ipv6-prefix] *ipv6-unicast-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*
Description	Enter the managed-route context
Max. Elements	16
Introduced	16.0.R4

[ipv6-prefix] *ipv6-unicast-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **managed-route** *ipv6-unicast-prefix*
Description	Managed route prefix.
Introduced	16.0.R4
Notes	This element is part of a list key

metric *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **managed-route** *ipv6-unicast-prefix*
Description	Managed route metric.
Default	0
Introduced	16.0.R4

retail-svc-id *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Retail service ID

Range 1 to 2147483647

Introduced 16.0.R1

shcv

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Enter the shcv context

Introduced 16.0.R4

sla-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description SLA profile name

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Sub-profile name

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address*

Description Enter the subscriber-id context

Introduced 16.0.R1

string *subscriber-id*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **subscriber-id**

Description Subscriber identification

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

use-sap-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host ipv6** *ipv6-unicast-prefix* **mac** *mac-unicast-address* **subscriber-id**

Description Use the SAP id as subscriber ID

Introduced 16.0.R1

Notes This element is part of a choice

mac-learning

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host**

Description Enter the mac-learning context

Introduced 16.0.R4

data-triggered *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host mac-learning**

Description Enable learning of MAC addresses from data packets.

Default false

Introduced 16.0.R4

single-mac *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **static-host mac-learning**

Description Enforce the limit of a single MAC address per SAP, learned by means of ICMPv6.

Default false

Introduced 16.0.R4

sub-sla-mgmt

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*

Description Enter the sub-sla-mgmt context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Administrative state of subscriber management on this SAP

Default disable

Options enable, disable

Introduced 16.0.R1

defaults

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Enter the defaults context

Introduced 16.0.R1

int-dest-id

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Enter the int-dest-id context
Introduced	16.0.R1

string *int-dest-id*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults int-dest-id**
Description	Use the configured string
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

top-q-tag

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults int-dest-id**
Description	Use the top Q-tag of this SAP
Introduced	16.0.R1
Notes	This element is part of a choice

sla-profile *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Default SLA profile for hosts on this SAP
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**
Description	Default subscriber profile used for subscribers on this SAP
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

subscriber-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults**

Description Enter the subscriber-id context

Introduced 16.0.R1

auto-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**

Description Use auto-generated subscriber identification string

Introduced 16.0.R1

Notes This element is part of a choice

sap-id

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**

Description Use SAP ID as default subscriber identification string

Introduced 16.0.R1

Notes This element is part of a choice

string *subscriber-id*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt defaults subscriber-id**

Description Subscriber ID policy name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

single-sub-parameters

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Enter the single-sub-parameters context

Introduced 16.0.R1

non-sub-traffic

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters**

Description Enter the non-sub-traffic context

Introduced 16.0.R1

sla-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**

Description SLA profile applicable for all non-subscriber traffic

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

Notes This element is mandatory

sub-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**

Description Subscriber IDprofile applied for all non-subscriber traffic

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

Notes This element is mandatory

subscriber-id *subscriber-id*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters non-sub-traffic**

Description Subscriber ID applied for all non-subscriber traffic

String Length 1 to 32

Introduced 16.0.R1

profiled-traffic-only *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt single-sub-parameters**

Description Include all traffic in subscriber profile

Default false

Introduced 16.0.R1

sub-ident-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Subscriber identification policy used on this SAP

Reference configure **subscriber-mgmt sub-ident-policy** *external-named-item*

Introduced 16.0.R1

subscriber-limit *sap-subscriber-limit*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap* **sub-sla-mgmt**

Description Maximum number of subscribers on this SAP

Default 1

Introduced 16.0.R1

sap-parameters

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the sap-parameters context

Introduced 16.0.R1

anti-spoof *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters**

Description Anti-spoofing type.

Default ip-mac

Options ip-mac, nh-mac

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

sub-sla-mgmt

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters**

Description Enter the sub-sla-mgmt context

Introduced 16.0.R1

defaults

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt**

Description Enter the defaults context

Introduced 16.0.R1

sla-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults**

Description Default SLA profile

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults**

Description Default subscriber profile

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

subscriber-id

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults**
Description	Enter the subscriber-id context
Introduced	16.0.R1

auto-id

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults subscriber-id**
Description	Subscriber ID that is autogenerated
Introduced	16.0.R1
Notes	This element is part of a choice

string *subscriber-id*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt defaults subscriber-id**
Description	String to be used as default subscriber ID
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

sub-ident-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap-parameters sub-sla-mgmt**
Description	Subscriber identification policy
Reference	configure **subscriber-mgmt sub-ident-policy** *external-named-item*
Introduced	16.0.R1

shcv-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Subscriber host connectivity verification policy for IPv4 and IPv6
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

shcv-policy-ipv4 *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Subscriber host connectivity verification policy for IPv4
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

shcv-policy-ipv6 *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Subscriber host connectivity verification policy for IPv6
Reference	configure **subscriber-mgmt shcv-policy** *external-named-item*
Introduced	16.0.R1

srrp [srrp-id] *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the srrp context
Max. Elements	1
Introduced	16.0.R1

[srrp-id] *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	SRRP instance ID
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Administrative state of SRRP
Default	disable
Options	enable, disable
Introduced	16.0.R1

bfd-liveness

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Enter the bfd-liveness context
Introduced	16.0.R1

dest-ip *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **bfd-liveness**
Description	Destination IPv4 prefix
Introduced	16.0.R1
Notes	This element is mandatory

interface-name *interface-name*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **bfd-liveness**
Description	Name of interface running BFD
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-name *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **bfd-liveness**
Description	Service name of interface running BFD
String Length	1 to 64
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

gw-mac *mac-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Gateway MAC address
Introduced	16.0.R1

keep-alive-interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Interval between SRRP advertisements
Range	1 to 100
Default	10
Units	deciseconds
Introduced	16.0.R1

message-path *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	SAP to use as the SRRP message path
Reference	configure **service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **sap** *sap*
Introduced	16.0.R1

monitor-oper-group

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Enter the monitor-oper-group context
Introduced	16.0.R1

group-name *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **monitor-oper-group**
Description	Operational group name
Reference	configure **service oper-group** *string*
Introduced	16.0.R1

priority-step *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number* **monitor-oper-group**
Description	Value with which the group priority increases or decreases if the state of this messaging-SAP changes.
Range	1 to 10
Introduced	16.0.R1

one-garp-per-sap *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Send one gratuitous ARP to each SAP
Default	false
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	VRRP priority control policy associated with the SRRP
Reference	configure **vrrp policy** *number*
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

preempt *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Allow the SRRP instance to override an existing master
Default	true
Introduced	16.0.R1

priority *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*
Description	Priority for this interface at this level
Range	1 to 254
Default	100
Introduced	16.0.R1

send-fib-population-packets *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **srrp** *number*

Description Mode used to send FIB population packets (such as ARP) on switchover

Default all

Options all, outer-tag-only

Introduced 16.0.R1

suppress-aa-sub *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enable application assurance suppression for ESM subscribers

Default false

Introduced 16.0.R1

tos-marking-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description TOS marking state

Default trusted

Options trusted, untrusted

Introduced 16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Group interface type

Default plain

Options plain, lns, wlan-gw, gtp, bonding

Introduced 16.0.R1

wlan-gw

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*

Description Enter the wlan-gw context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Administrative state of WLAN Gateway on this group interface

Default disable

Options enable, disable

Introduced 16.0.R1

gateway-address [address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Enter the gateway-address context

Max. Elements 10

Introduced 16.0.R1

[address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description The IP address of the WLAN Gateway tunnel function of this system on this group interface

Introduced 16.0.R1

Notes This element is part of a list key

purpose

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Description Enter the purpose context

Introduced 16.0.R1

xconnect *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw gateway-address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **purpose**

Description Use tunnel IP address for crosse-connect traffic

Default false

Introduced 16.0.R1

gateway-router *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description The routing instance where the tunneled UE traffic is routed, or empty to specify that the routing instance corresponding to the service containing this interface is used.

Introduced 16.0.R1

l2-ap

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Enter the l2-ap context

Introduced 16.0.R1

access-point [sap-id] *sap*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap**

Description Enter the access-point context

Introduced 16.0.R1

[sap-id] *sap*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*
Description	SAP ID for the Layer 2 access point
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*
Description	Administrative state of this access point
Default	disable
Options	enable, disable
Introduced	16.0.R1

encap-type *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*
Description	Service encapsulation type of this access point
Options	null, dot1q, qinq
Introduced	16.0.R1

epipe-sap-template *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap access-point** *sap*
Description	Parameters template for the internal connections with the ISA cards
Reference	configure **service template epipe-sap-template** *string*
Introduced	16.0.R1

auto-sub-id-fmt *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap**
Description	Format of the auto-generated subscriber ID
Default	include-ap-tags
Options	include-ap-tags, sap-only
Introduced	16.0.R1

default-encap-type *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw l2-ap**
Description	Default encapsulation type for Layer 2 access points
Default	null
Options	null, dot1q, qinq
Introduced	16.0.R1

lanext

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the lanext context
Introduced	16.0.R1

max-bd *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw lanext**
Description	Maximum number of bridge domains
Range	1 to 131071
Default	131071
Introduced	16.0.R1

learn-ap-mac

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the learn-ap-mac context
Introduced	16.0.R1

delay-auth *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw learn-ap-mac**
Description	Delay authentication until ARP/ND is answered or timed out, after which AP MAC can be included
Default	false
Introduced	16.0.R1

mobility

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the mobility context
Introduced	16.0.R1

hold-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Minimum time between two mobility events for a single UE
Range	0 to 255
Default	5
Units	seconds
Introduced	16.0.R1

inter-tunnel-type *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Enable mobility between terminating tunnel types
Default	false
Introduced	16.0.R1

inter-vlan *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Enable mobility within different VLANs within the same range of VLAN Q-tags
Default	false
Introduced	16.0.R1

trigger

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility**
Description	Enter the trigger context
Introduced	16.0.R1

control *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility trigger**
Description	Use control traffic (DHCP, DHCPv6, and ICMPv6-RS messages) as mobility trigger
Default	false
Introduced	16.0.R1

data *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility trigger**

Description Use data traffic as mobility trigger

Default false

Introduced 16.0.R1

iapp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw mobility trigger**

Description Use Inter Access Point Protocol (IAPP) messages as mobility trigger

Default false

Introduced 16.0.R1

oper-down-on-group-degrade *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Bring interface operationally down when its ISA WLAN Gateway becomes degraded

Default false

Introduced 16.0.R1

tcp-mss-adjust *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Value for the TCP Maximum Segment Size (MSS) option if not present, or if value is higher

Range 160 to 10240

Units bytes

Introduced 16.0.R1

tunnel-egress-qos

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**

Description Enter the tunnel-egress-qos context

Introduced 16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Administrative state of egress QoS
Default	disable
Options	enable, disable
Introduced	16.0.R1

agg-rate-limit (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Aggregate rate limit of each shaper associated with this interface
Default	max
Introduced	16.0.R1

granularity *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Granularity of the egress shaping for WLAN Gateway
Default	per-tunnel
Options	per-tunnel, per-retailer
Introduced	16.0.R1

hold-time (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Minimum time that the egress QoS resources associated with a tunnel (such as a shaper) are held
Range	1 to 86400
Units	seconds
Options	infinite
Introduced	16.0.R1

multi-client-only *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Tunnel traffic to shape when multiple UEs use this tunnel
Default	false
Introduced	16.0.R1

qos *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Identifier of the egress QoS policy associated with each tunnel of this interface
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

scheduler-policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-egress-qos**
Description	Identifier of the egress scheduler policy associated with each tunnel of this interface
Reference	configure **qos scheduler-policy** *string*
Introduced	16.0.R1

tunnel-encaps

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the tunnel-encaps context
Introduced	16.0.R1

learn-l2tp-cookie (*keyword* | *string*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw tunnel-encaps**
Description	System that learns the cookie from L2TP tunnels terminating on this interface
String Length	6
Default	never
Options	never, always
Introduced	16.0.R1

vlan-range [range] *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Enter the vlan-range context
Introduced	16.0.R1

[range] *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	IEEE 802.1q VLAN tag range
Introduced	16.0.R1
Notes	This element is part of a list key

authentication

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Enter the authentication context

Introduced 16.0.R1

hold-time *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**

Description Minimum time to hold a UE down after an authentication failure

Range 0 to 3600

Default 5

Units seconds

Introduced 16.0.R1

on-control-plane *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**

Description Trigger authentication on first control plane packet instead of first data packet

Default false

Introduced 16.0.R1

policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**

Description RADIUS policy for authentication

Reference configure **aaa radius isa-policy** *string*

Introduced 16.0.R1

vlan-mismatch-timeout *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **authentication**
Description	Timeout value for the RADIUS proxy cache if a packet is received with a non-matching VLAN
Range	5 to 60
Units	seconds
Introduced	16.0.R1

data-triggered-ue-creation

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the data-triggered-ue-creation context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation**
Description	Administrative state of data triggered UE authentication
Default	disable
Options	enable, disable
Introduced	16.0.R1

create-proxy-cache-entry

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation**
Description	Enter the create-proxy-cache-entry context
Introduced	16.0.R1

mac-format *mac-specification*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry**
Description	MAC address format
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

proxy-server

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry**
Description	Enter the proxy-server context
Introduced	16.0.R1

name *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry proxy-server**
Description	RADIUS Proxy server name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

router-instance *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **data-triggered-ue-creation create-proxy-cache-entry proxy-server**
Description	The router instance of the RADIUS Proxy server.
Introduced	16.0.R1
Notes	This element is mandatory

dhcp4

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Enter the dhcp4 context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**

Description Administrative state of the DHCPv4 protocol

Default disable

Options enable, disable

Introduced 16.0.R1

dns *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**

Description DNS servers signaled in DHCP

Max. Elements 2

Introduced 16.0.R1

Notes This element is ordered by user

l2-aware-ip-address (*string* | *keyword*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**

Description IPv4 address for migrant or DSM Ues

Options from-pool

Introduced 16.0.R1

lease-time

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**

Description Enter the lease-time context

Introduced 16.0.R1

active *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4 lease-time**
Description	IP address lease time for the UE after successful (portal) authentication
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

initial *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4 lease-time**
Description	IP address lease time that is provided before and during (portal) authentication to the UE
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

nbns *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp4**
Description	NetBIOS servers signaled in DHCP
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

dhcp6

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the dhcp6 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6**
Description	Administrative state of this protocol
Default	disable
Options	enable, disable
Introduced	16.0.R1

preferred-lifetime

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6**
Description	Enter the preferred-lifetime context
Introduced	16.0.R1

active *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 preferred-lifetime**
Description	Preferred signaled lifetime after full authentication
Range	300 to 3600
Default	600
Units	seconds
Introduced	16.0.R1

initial *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 preferred-lifetime**
Description	Preferred signaled lifetime when the UE is not fully authenticated
Range	300 to 3600
Default	300
Units	seconds
Introduced	16.0.R1

valid-lifetime

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6**

Description Enter the valid-lifetime context

Introduced 16.0.R1

active *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 valid-lifetime**

Description Signaled valid lifetime after full authentication

Range 300 to 3600

Default 600

Units seconds

Introduced 16.0.R1

initial *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dhcp6 valid-lifetime**

Description Valid signaled lifetime when the UE is not fully authenticated

Range 300 to 3600

Default 300

Units seconds

Introduced 16.0.R1

dsm

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Enter the dsm context

Introduced 16.0.R1

accounting-policy *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	ISA Radius Policy for accounting
Reference	configure **aaa radius isa-policy** *string*
Introduced	16.0.R1

accounting-update

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	Enter the accounting-update context
Introduced	16.0.R1

interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm accounting-update**
Description	Time interval between consecutive Interim accounting update messages
Range	5 to 259200
Units	minutes
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	Administrative state of DSM
Default	disable
Options	enable, disable
Introduced	16.0.R1

egress

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**
Description	Enter the egress context
Introduced	16.0.R1

policer *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm egress**

Description Policer for egress traffic

Reference configure **subscriber-mgmt isa-policer** *string*

Introduced 16.0.R1

ingress

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**

Description Enter the ingress context

Introduced 16.0.R1

ip-filter *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm ingress**

Description Filter for ingress traffic

Reference configure **subscriber-mgmt isa-filter** *string*

Introduced 16.0.R1

policer *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm ingress**

Description Policer for ingress traffic

Reference configure **subscriber-mgmt isa-policer** *string*

Introduced 16.0.R1

one-time-redirect

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm**

Description Enter the one-time-redirect context

Introduced 16.0.R1

port *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm one-time-redirect**

Description Destination port of packets considered for HTTP redirect

Range 1 to 65535

Default 80

Introduced 16.0.R1

url *one-time-http-redirect-url*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **dsm one-time-redirect**

Description URL for redirected HTTP protocol packets that can be overridden by AAA

Introduced 16.0.R1

http-redirect-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Default HTTP redirect policy for portal authentication

Reference configure **subscriber-mgmt http-redirect-policy** *string*

Introduced 16.0.R1

idle-timeout-action *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Action to perform when the idle timeout expires

Default remove

Options remove, shcv

Introduced 16.0.R1

l2-service

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*

Description Enter the l2-service context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **l2-service**
Description	Administrative state of the Layer 2 service
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **l2-service**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

service *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **l2-service**
Description	Layer 2 service associated with this range
Reference	configure **service vpls** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory

nat-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	NAT policy for DSM and ISA portal authentication
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

retail-service *service-name*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Default retail service for new UEs in this range
String Length	1 to 64
Introduced	16.0.R1

slaac

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the slaac context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac**
Description	Administrative state of this protocol
Default	disable
Options	enable, disable
Introduced	16.0.R1

preferred-lifetime

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac**
Description	Enter the preferred-lifetime context
Introduced	16.0.R1

active *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac preferred-lifetime**

Description Preferred signaled lifetime after full authentication

Range 300 to 3600

Default 600

Units seconds

Introduced 16.0.R1

initial *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac preferred-lifetime**

Description Preferred signaled lifetime when the UE is not fully authenticated

Range 300 to 3600

Default 300

Units seconds

Introduced 16.0.R1

valid-lifetime

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac**

Description Enter the valid-lifetime context

Introduced 16.0.R1

active *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac valid-lifetime**

Description Signaled valid lifetime after full authentication

Range 300 to 3600

Default 600

Units seconds

Introduced 16.0.R1

initial *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **slaac valid-lifetime**
Description	Valid signaled lifetime when the UE is not fully authenticated
Range	300 to 3600
Default	300
Units	seconds
Introduced	16.0.R1

vrgw

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the vrgw context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw**
Description	Administrative state of VRGW
Default	disable
Options	enable, disable
Introduced	16.0.R1

brg

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw**
Description	Enter the brg context
Introduced	16.0.R1

authenticated-brg-only *boolean*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw brg**
Description	Only allow hosts from BRGs pre-authenticated using the radius-proxy
Default	false
Introduced	16.0.R1

default-brg-profile *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw brg**
Description	Default BRG profile to use if the AAA server does not specify one
Reference	configure **subscriber-mgmt vrgw brg-profile** *string*
Introduced	16.0.R1

lanext

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw**
Description	Enter the lanext context
Introduced	16.0.R1

access

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Enter the access context
Introduced	16.0.R1

max-mac *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext access**
Description	Maximum number of MAC entries in bridged domain from access side
Range	1 to 128
Default	20
Introduced	16.0.R1

multi-access *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext access**
Description	Allow multiple access points
Default	false
Introduced	16.0.R1

admin-state *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Administrative state of HLE
Default	disable
Options	enable, disable
Introduced	16.0.R1

assistive-address-resolution *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	ISA assists in address resolution
Default	false
Introduced	16.0.R1

bd-mac-prefix *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Prefix from which BD MACs for MAC translation are derived
String Length	8
Introduced	16.0.R1

mac-translation *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Hide MAC address of home host by translating it to BD MAC
Default	false
Introduced	16.0.R1

network

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext**
Description	Enter the network context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext network**
Description	Administrative state of network
Default	enable
Options	enable, disable
Introduced	16.0.R1

max-mac *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **vrgw lanext network**
Description	Maximum number of MAC entries in bridged domain from network side
Range	1 to 64
Default	20
Introduced	16.0.R1

xconnect

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string*
Description	Enter the xconnect context
Introduced	16.0.R1

accounting

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect**
Description	Enter the accounting context
Introduced	16.0.R1

mobility-updates *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect accounting**
Description	Accounting updates triggered by mobility
Default	false
Introduced	16.0.R1

policy *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect accounting**
Description	ISA RADIUS accounting policy for cross-connected UEs
Reference	configure **aaa radius isa-policy** *string*
Introduced	16.0.R1

update-interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect accounting**
Description	Time between consecutive Interim accounting update messages
Range	5 to 259200
Units	minutes
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw vlan-range** *string* **xconnect**
Description	Administrative state of the cross-connect
Default	disable
Options	enable, disable
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wlan-gw**
Description	Identifier of the WLAN Gateway ISA group to terminate UEs for this group interface
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

wpp

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name*
Description	Enter the wpp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Administrative state of WPP
Default	disable
Options	enable, disable
Introduced	16.0.R1

initial

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Enter the initial context
Introduced	16.0.R1

sla-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp initial**

Description Initial SLA profile

Reference configure **subscriber-mgmt sla-profile** *external-named-item*

Introduced 16.0.R1

sub-profile *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp initial**

Description Initial subscriber profile

Reference configure **subscriber-mgmt sub-profile** *external-named-item*

Introduced 16.0.R1

lease-time *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**

Description Lease time

Range 10 to 315446399

Default 600

Introduced 16.0.R1

portal

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**

Description Enter the portal context

Introduced 16.0.R1

name *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp portal**
Description	Name for the WPP portal of the interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

portal-group *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp portal**
Description	WPP portal group for this interface
Reference	configure **aaa wpp portal-group** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp portal**
Description	The virtual router instance of the WPP portal for this interface
Introduced	16.0.R1
Notes	This element is part of a choice

restore-to-initial-on-disconnect *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Restore initial profiles after a host has disconnected
Default	true
Introduced	16.0.R1

triggered-hosts *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	Enable/disable triggered hosts
Default	false
Introduced	16.0.R1

user-db *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **group-interface** *interface-name* **wpp**
Description	User database
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1

hold-time

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Enter the hold-time context
Introduced	16.0.R1

ipv4

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time**
Description	Enter the ipv4 context
Introduced	16.0.R1

down

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4**
Description	Enter the down context
Introduced	16.0.R1

init-only *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4 down**
Description	Apply down delay only when interface is configured or after reboot
Default	false
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4 down**
Description	Down hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

up

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4**
Description	Enter the up context
Introduced	16.0.R1

seconds *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv4 up**
Description	Up hold time for the IP interface
Range	1 to 1200
Units	seconds
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time**
Description	Enter the ipv6 context
Introduced	16.0.R1

down

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6**

Description Enter the down context

Introduced 16.0.R1

init-only *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6 down**

Description Apply hold time only when IP interface is first configured or after system reboot

Default false

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6 down**

Description Down hold time for the IPv6 interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

up

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6**

Description Enter the up context

Introduced 16.0.R1

seconds *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **hold-time ipv6 up**

Description Up hold time for the IPv6 interface

Range 1 to 1200

Units seconds

Introduced 16.0.R1

ipoe-linking

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipoe-linking context

Introduced 16.0.R1

gratuitous-router-advertisement *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipoe-linking**

Description Send unsolicited router advertisement after DHCP setup

Default false

Introduced 16.0.R1

ipoe-session

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipoe-session context

Introduced 16.0.R1

session-limit *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipoe-session**

Description Maximum number of sessions on this group interface

Range 1 to 500000

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipv4 context

Introduced 16.0.R1

address [ipv4-address] *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4**

Description Enter the address context

Introduced 16.0.R1

[ipv4-address] *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	IP address or IP subnet applied to interface
Introduced	16.0.R1
Notes	This element is part of a list key

gateway *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	Separate IP address within the subnet for SRRP routing purposes
Introduced	16.0.R1

holdup-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	Time for the route before it accepts the new state attribute
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

populate-host-routes *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	Populate subscriber host routes in local FIB
Default	false
Introduced	16.0.R1

prefix-length *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	IPv4 address prefix length
Range	0 to 32
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 address** *ipv4-unicast-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

allow-unmatching-subnets *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Allow subscriber hosts without a matching subnet
Default	false
Introduced	16.0.R1

default-dns *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Default DNS server addresses
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

dhcp

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Enter the dhcp context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Administratively enable/disable DHCP.

Default enable

Options enable, disable

Introduced 16.0.R4

client-applications

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the client-applications context

Introduced 16.0.R4

dhcp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable DHCP as client application.

Default true

Introduced 16.0.R4

ppp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp client-applications**

Description Enable/disable PPP as client application.

Default false

Introduced 16.0.R4

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Add/remove a text description for DHCP.

String Length 1 to 80

Introduced 16.0.R4

gi-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Configure the gateway interface address for the DHCP relay.

Introduced 16.0.R4

lease-populate

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the lease-populate context

Introduced 16.0.R4

max-leases *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp lease-populate**

Description The maximum number of DHCPv4 leases.

Range 0 to 511999

Introduced 16.0.R4

option-82

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the option-82 context

Introduced 16.0.R4

vendor-specific-option

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82**

Description Enter the vendor-specific-option context

Introduced 16.0.R4

client-mac-address *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the MAC address in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the SAP ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

service-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the service ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

string *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send a user-defined string in the Nokia vendor specific suboption.

String Length 1 to 32

Introduced 16.0.R4

system-id *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp option-82 vendor-specific-option**

Description Send the system ID in the Nokia vendor specific suboption.

Default false

Introduced 16.0.R4

proxy-server

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Enter the proxy-server context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server**
Description	Administratively enable/disable DHCP proxy.
Default	disable
Options	enable, disable
Introduced	16.0.R1

emulated-server *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server**
Description	IP address used as the DHCP server address in the context of this service
Introduced	16.0.R1

lease-time

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server**
Description	Enter the lease-time context
Introduced	16.0.R1

radius-override *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**
Description	Use lease time information provided by RADIUS server
Default	false
Introduced	16.0.R1

value *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp proxy-server lease-time**

Description DHCP lease time

Range 300 to 315446399

Units seconds

Introduced 16.0.R1

python-policy *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Python policy.

Reference configure **python python-policy** *string*

Introduced 16.0.R4

relay-proxy

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**

Description Enter the relay-proxy context

Introduced 16.0.R1

release-update-src-ip *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp relay-proxy**

Description Specify whether or not to relay release messages.

Default false

Introduced 16.0.R4

siaddr-override *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp relay-proxy**

Description Specify the IP address to use.

Introduced 16.0.R4

server *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Configure the DHCP server IP addresses.
Max. Elements	8
Introduced	16.0.R4
Notes	This element is ordered by user

src-ip-addr *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Specify what source address to use.
Default	auto
Options	auto, gi-address
Introduced	16.0.R4

virtual-subnet *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 dhcp**
Description	Enable/disable virtual subnetting.
Default	false
Introduced	16.0.R4

export-host-routes *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Allow export of subscriber management host routes
Default	false
Introduced	16.0.R1

unnumbered

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4**
Description	Enter the unnumbered context
Introduced	16.0.R1

ip-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 unnumbered**

Description IP address of the interface

Introduced 16.0.R1

Notes This element is part of a choice

ip-int-name *interface-name*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv4 unnumbered**

Description Interface name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

ipv6

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name*

Description Enter the ipv6 context

Introduced 16.0.R1

address [ipv6-address] *ipv6-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**

Description Enter the address context

Introduced 16.0.R1

[ipv6-address] *ipv6-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*

Description IPv6 address for a router interface

Introduced 16.0.R1

Notes This element is part of a list key

holdup-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Configures the time to wait, in milliseconds, for the route before it accepts the new state attribute.
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

host-type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	Host type for subscriber interface addresses or prefixes
Options	pd, wan, pd-wan
Introduced	16.0.R1

prefix-length *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	IPv6 address prefix length
Range	0 to 128
Introduced	16.0.R1
Notes	This element is mandatory

track-srrp *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 address** *ipv6-address*
Description	SRRP instance whose state is tracked on this IP address
Range	1 to 4294967295
Introduced	16.0.R1

allow-multiple-wan-addresses *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Configure if the interface will accept multiple WAN addresses.
Default	false
Introduced	16.0.R4

allow-unmatching-prefixes *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Allow subscriber hosts without a matching prefix
Default	false
Introduced	16.0.R1

default-dns *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Default DNS server addresses
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

delegated-prefix-length (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	IPv6 delegated prefix length
Range	48 to 64
Default	64
Options	variable
Introduced	16.0.R1

dhcp6

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the dhcp6 context
Introduced	16.0.R1

override-slaac *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Allow WAN address offered by DHCP to overwrite the WAN address acquired from SLAAC
Default	false
Introduced	16.0.R1

pd-managed-route

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the pd-managed-route context
Introduced	16.0.R1

next-hop *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 pd-managed-route**
Description	Next hop type
Default	ipv6
Options	ipv4, ipv6
Introduced	16.0.R1

proxy-server

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the proxy-server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Administrative state of DHCPv6 proxy server
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Enter the client-applications context
Introduced	16.0.R1

dhcp *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**
Description	Allow the DHCP application to use DHCP relay functionality
Default	true
Introduced	16.0.R1

ppp *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server client-applications**
Description	Allow the PPP application to use DHCP relay functionality
Default	false
Introduced	16.0.R1

preferred-lifetime *dhcp6-prefix-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Time for prefix to remain preferred on this interface
Default	3600
Introduced	16.0.R1

rebind-timer *dhcp6-rebind-timer*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Rebind timer (T2) for this interface
Range	0 to 1209600
Introduced	16.0.R1

renew-timer *dhcp6-renew-timer*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Renew timer (T1)
Range	0 to 604800
Introduced	16.0.R1

server-id

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Enter the server-id context
Introduced	16.0.R1

duid-en-ascii *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as an ASCII string
String Length	1 to 58
Introduced	16.0.R1
Notes	This element is part of a choice

duid-en-hex *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Vendor-assigned unique ID based on Enterprise Number (DUID-EN) as a hexadecimal string
String Length	1 to 118
Introduced	16.0.R1
Notes	This element is part of a choice

duid-ll

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server server-id**
Description	Use link-layer address (DUID-LL) as DUID
Introduced	16.0.R1
Notes	This element is part of a choice

valid-lifetime *dhcp6-prefix-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 proxy-server**
Description	Time for prefix to remain valid on this interface
Default	86400
Introduced	16.0.R1

python-policy *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Python policy
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

relay

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6**
Description	Enter the relay context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Administrative state of DHCvP6 relay
Default	disable
Options	enable, disable
Introduced	16.0.R1

client-applications

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**

Description Enter the client-applications context

Introduced 16.0.R1

dhcp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay client-applications**

Description Allow the DHCP application to use DHCP relay functionality

Default true

Introduced 16.0.R1

ppp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay client-applications**

Description Allow the PPP application to use DHCP relay functionality

Default false

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**

Description Link address for the DHCPv6 relay messages

Introduced 16.0.R1

server *ipv6-address-with-zone*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	DHCP6 server(s) to which the DHCP6 requests are forwarded
Max. Elements	8
Introduced	16.0.R1
Notes	This element is ordered by user

source-address *ipv6-unicast-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 dhcp6 relay**
Description	Source IPv6 address for the DHCPv6 relay messages
Introduced	16.0.R1

ipoe-bridged-mode *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enable/Disable IPv6 IPoE Bridged Mode.
Default	false
Introduced	16.0.R4

link-local-address

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the link-local-address context
Introduced	16.0.R1

address *ipv6-address*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 link-local-address**
Description	Link local address
Introduced	16.0.R1

prefix [ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the prefix context
Introduced	16.0.R1

[ipv6-prefix] *ipv6-prefix*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	IPv6 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

holdup-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	Configures the time to wait, in milliseconds, for the route before it accepts the new state attribute.
Range	100 to 5000
Units	milliseconds
Introduced	16.0.R1

host-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*
Description	Host type for subscriber interface addresses or prefixes
Options	pd, wan, pd-wan
Introduced	16.0.R1

track-srrp *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 prefix** *ipv6-prefix*

Description SRRP instance whose state is tracked on this IP address

Range 1 to 4294967295

Introduced 16.0.R1

router-advertisements

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**

Description Enter the router-advertisements context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**

Description Administrative state of router advertisement

Default disable

Options enable, disable

Introduced 16.0.R1

force-mcast *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**

Description Send router advertisement to a multicast address instead of unicast for IPoE

Options ip, ip-mac

Introduced 16.0.R1

max-advertisement-interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Maximum advertisement interval
Range	900 to 1800
Default	1800
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Minimum advertisement interval
Range	900 to 1350
Default	900
Units	seconds
Introduced	16.0.R1

options

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Enter the options context
Introduced	16.0.R1

current-hop-limit *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Hop limit to be advertised
Range	0 to 255
Default	64
Introduced	16.0.R1

dns

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**

Description Enter the dns context

Introduced 16.0.R1

include-rdnss *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options dns**

Description Include the RDNSS server option 25

Default false

Introduced 16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options dns**

Description Maximum time for the RDNSS address to remain valid

Range 900 to 3600

Default 3600

Units seconds

Options infinite

Introduced 16.0.R1

managed-configuration *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**

Description Managed address configuration flag

Default false

Introduced 16.0.R1

mtu (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Advertised MTU value
Range	1280 to 9212
Default	not-included
Units	bytes
Options	not-included
Introduced	16.0.R1

other-stateful-configuration *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Other stateful configuration flag
Default	false
Introduced	16.0.R1

reachable-time *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery reachable time that is advertised for this group interface
Range	0 to 3600000
Default	0
Units	milliseconds
Introduced	16.0.R1

retransmit-timer *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Neighbor discovery retrasnmit timer that is advertised for this group interface
Range	0 to 1800000
Default	0
Units	seconds
Introduced	16.0.R1

router-lifetime (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements options**
Description	Router lifetime
Range	2700 to 9000
Default	4500
Units	seconds
Options	no-default-router
Introduced	16.0.R1

prefix-options

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements**
Description	Enter the prefix-options context
Introduced	16.0.R1

autonomous *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Value of the autonomous flag
Default	false
Introduced	16.0.R1

on-link *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Assign the prefix to an interface on the specified link
Default	true
Introduced	16.0.R1

preferred-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain preferred
Default	3600
Units	seconds
Introduced	16.0.R1

valid-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-advertisements prefix-options**
Description	Time for a prefix to remain valid
Default	86400
Units	seconds
Introduced	16.0.R1

router-solicit

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6**
Description	Enter the router-solicit context
Introduced	16.0.R1

inactivity-timer (*number* | *keyword*)

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **ipv6 router-solicit**
Description	Timebefore an inactive host is removed
Range	1 to 31536000
Default	300
Units	seconds
Options	infinite
Introduced	16.0.R1

local-address-assignment

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name*

Description Enter the local-address-assignment context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment**

Description Administrative state of local address assignment

Default disable

Options enable, disable

Introduced 16.0.R1

ipv4

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment**

Description Enter the ipv4 context

Introduced 16.0.R1

client-applications

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4**

Description Enter the client-applications context

Introduced 16.0.R1

ppp *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4 client-applications**

Description Request local addresses for PPP IPCP hosts

Default false

Introduced 16.0.R1

default-pool *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4**
Description	Default pools
String Length	1 to 32
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

server *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv4**
Description	Local DHCP server that contains pools for local address assignment
Reference	configure **service vprn** *service-name* **dhcp-server dhcpv4** *string*
Introduced	16.0.R1

ipv6

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment**
Description	Enter the ipv6 context
Introduced	16.0.R1

client-applications

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6**
Description	Enter the client-applications context
Introduced	16.0.R1

ipoe-slaac *boolean*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6 client-applications**
Description	Request local addresses for IPoE SLAAC hosts
Default	false
Introduced	16.0.R1

ipoe-wan *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for IPoE IA NA hosts

Default false

Introduced 16.0.R1

ppp-slaac *boolean*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6 client-applications**

Description Request local addresses for PPP SLAAC hosts

Default false

Introduced 16.0.R1

server *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **local-address-assignment ipv6**

Description Local DHCPv6 server that contains pools for local address assignment

Reference configure **service vprn** *service-name* **dhcp-server dhcpv6** *string*

Introduced 16.0.R1

pppoe

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name*

Description Enter the pppoe context

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **pppoe**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

session-limit *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **pppoe**
Description	Maximum PPPoE sessions
Range	1 to 262143
Default	1
Introduced	16.0.R1

private-retail-subnets *boolean*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Export subnets to the forwarding service
Default	false
Introduced	16.0.R1

wan-mode *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	The mode of operation for hosts that have a /128 WAN IPv6 address.
Default	mode64
Options	mode64, mode128
Introduced	16.0.R4

wlan-gw

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name*
Description	Enter the wlan-gw context
Introduced	16.0.R1

pool-manager

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw**

Description Enter the pool-manager context

Introduced 16.0.R1

dhcp6-client

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager**

Description Enter the dhcp6-client context

Introduced 16.0.R1

dhcpv4-nat

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Enter the dhcpv4-nat context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client dhcpv4-nat**

Description Administrative state of the considered DHCPv6 client

Default disable

Options enable, disable

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client dhcpv4-nat**

Description The IPv6-address that should be included in the link-address field of the relay header.

Default ::

Introduced 16.0.R4

pool-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client dhcpv4-nat**

Description Pool name to be sent in the DHCPv6 messages

String Length 1 to 32

Introduced 16.0.R1

ia-na

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Enter the ia-na context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client ia-na**

Description Administrative state of the considered DHCPv6 client

Default disable

Options enable, disable

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client ia-na**

Description The IPv6-address that should be included in the link-address field of the relay header.

Default ::

Introduced 16.0.R4

pool-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client ia-na**

Description Pool name to be sent in the DHCPv6 messages

String Length 1 to 32

Introduced 16.0.R1

lease-query

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Enter the lease-query context

Introduced 16.0.R1

max-retries *number*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client lease-query**

Description Maximum number of retries before the lease query assumes that no existing subnets were allocated

Range 0 to 10

Default 2

Introduced 16.0.R1

servers *ipv6-unicast-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description DHCPv6 servers that are used for requesting addresses

Max. Elements 8

Introduced 16.0.R1

slaac

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Enter the slaac context

Introduced 16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client slaac**

Description Administrative state of the considered DHCPv6 client

Default disable

Options enable, disable

Introduced 16.0.R1

link-address *ipv6-address*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client slaac**

Description The IPv6-address that should be included in the link-address field of the relay header.

Default ::

Introduced 16.0.R4

pool-name *string*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client slaac**

Description Pool name to be sent in the DHCPv6 messages

String Length 1 to 32

Introduced 16.0.R1

source-ip (*keyword* | *string*)

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager dhcp6-client**

Description Source IP address that is used by the DHCPv6 client

Default use-interface-ip

Options use-interface-ip

Introduced 16.0.R1

watermarks

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager**

Description Enter the watermarks context

Introduced 16.0.R1

high *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager watermarks**
Description	New prefix that is used when the ISA level reaches high watermark
Range	51 to 99
Default	95
Introduced	16.0.R1

low *number*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager watermarks**
Description	Prefix that is released if the usage level without this prefix is below the low watermark
Range	50 to 98
Default	90
Introduced	16.0.R1

wlan-gw-group *string*

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw pool-manager**
Description	Identifier of the WLAN Gateway ISA group on which the prefixes are installed
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

redundancy

Context	**configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw**
Description	Enter the redundancy context
Introduced	16.0.R1

admin-state *keyword*

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw redundancy**

Description Administrative state of redundancy

Default disable

Options enable, disable

Introduced 16.0.R1

export *ipv4-unicast-prefix*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw redundancy**

Description Route to export to peer

Introduced 16.0.R1

monitor *ipv4-unicast-prefix*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure service vprn** *service-name* **subscriber-interface** *interface-name* **wlan-gw redundancy**

Description Peer route to monitor

Introduced 16.0.R1

ttl-propagate

Context **configure service vprn** *service-name*

Description Enter the ttl-propagate context

Introduced 16.0.R1

local *keyword*

Context	**configure service vprn** *service-name* **ttl-propagate**
Description	Manage TTL propagation from IP header into label stack for local packets.
Default	use-base
Options	none, all, vc-only, use-base
Introduced	16.0.R1

transit *keyword*

Context	**configure service vprn** *service-name* **ttl-propagate**
Description	Manage TTL propagation from IP header into label stack for transit packets.
Default	use-base
Options	none, all, vc-only, use-base
Introduced	16.0.R1

twamp-light

Context	**configure service vprn** *service-name*
Description	Enter the twamp-light context
Introduced	16.0.R1

reflector

Context	**configure service vprn** *service-name* **twamp-light**
Description	Enter the reflector context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **twamp-light reflector**
Description	Administratively enable or disable TWAMP-Light reflector
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure service vprn** *service-name* **twamp-light reflector**
Description	Descriptive text for the specified TWAMP-Light reflector
String Length	1 to 80
Introduced	16.0.R1

prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **twamp-light reflector**
Description	Enter the prefix context
Max. Elements	50
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure service vprn** *service-name* **twamp-light reflector prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Source prefix for the TWAMP-Light reflector
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure service vprn** *service-name* **twamp-light reflector prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Descriptive text for the specified TWAMP-Light reflector prefix
String Length	1 to 80
Introduced	16.0.R1

udp-port *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **twamp-light reflector**
Description	UDP port on which the specified TWAMP-Light reflector listens for TWAMP PDUs
Range	862 | 64364 to 64373
Introduced	16.0.R1
Notes	This element is mandatory

video-interface [interface-name] *interface-name*

Context	**configure service vprn** *service-name*
Description	Enter the video-interface context
Introduced	16.0.R1

[interface-name] *interface-name*

Context	**configure service vprn** *service-name* **video-interface** *interface-name*
Description	Interface name
String Length	1 to 29
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-policy *string*

Context	**configure service vprn** *service-name* **video-interface** *interface-name*
Description	Accounting Policy
Reference	configure **log accounting-policy** *number*
Introduced	16.0.R1

address [ip-address] *ipv4-prefix-with-host-bits*

Context	**configure service vprn** *service-name* **video-interface** *interface-name*
Description	Enter the address context
Max. Elements	16
Introduced	16.0.R1

[ip-address] *ipv4-prefix-with-host-bits*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **address** *ipv4-prefix-with-host-bits*
Description	IPv4 address for a router interface
Introduced	16.0.R1
Notes	This element is part of a list key

adi

Context	**configure service vprn** *service-name* **video-interface** *interface-name*
Description	Enter the adi context
Introduced	16.0.R1

scte30

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **adi**
Description	Enter the scte30 context
Introduced	16.0.R1

ad-server [address] *ipv4-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **adi scte30**
Description	Enter the ad-server context
Max. Elements	4
Introduced	16.0.R1

[address] *ipv4-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **adi scte30 ad-server** *ipv4-address*
Description	Ad server address
Introduced	16.0.R1
Notes	This element is part of a list key

local-address

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **adi scte30**
Description	Enter the local-address context
Introduced	16.0.R1

control *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **adi scte30 local-address**
Description	Control
Introduced	16.0.R1
Notes	This element is mandatory

data *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **adi scte30 local-address**
Description	Data
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure service vprn** *service-name* **video-interface** *interface-name*
Description	Administrative state of the video interface
Default	disable
Options	enable, disable
Introduced	16.0.R1

channel [mcast-address] *ipv4-multicast-address* **source** *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name*
Description	Enter the channel context
Introduced	16.0.R1

[mcast-address] *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Multicast channel address
Introduced	16.0.R1
Notes	This element is part of a list key

source *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Unicast source address
Introduced	16.0.R1
Notes	This element is part of a list key

channel-name *string*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	max 32 chars.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

scte35-action *keyword*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Enable/disable forwarding scte 35 cue avails.
Default	forward
Options	forward, drop
Introduced	16.0.R1

zone-channel [zone-mcast-address] *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address*
Description	Enter the zone-channel context
Introduced	16.0.R1

[zone-mcast-address] *ipv4-multicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address* **zone-channel** *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*
Description	Multicast zone channel address
Introduced	16.0.R1
Notes	This element is part of a list key

zone-source *ipv4-unicast-address*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address* **zone-channel** *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*
Description	Unicast source address
Introduced	16.0.R1
Notes	This element is part of a list key

adi-channel-name *string*

Context **configure service vprn** *service-name* **video-interface** *interface-name* **channel** *ipv4-multicast-address* **source** *ipv4-unicast-address* **zone-channel** *ipv4-multicast-address* **zone-source** *ipv4-unicast-address*

Description max 32 chars.

String Length 1 to 32

Introduced 16.0.R1

cpu-protection *string*

Context **configure service vprn** *service-name* **video-interface** *interface-name*

Description CPU protection policy

Reference configure **system security cpu-protection policy** *number*

Introduced 16.0.R1

description *string*

Context **configure service vprn** *service-name* **video-interface** *interface-name*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

multicast-service *number*

Context **configure service vprn** *service-name* **video-interface** *interface-name*

Description Service ID of the associated multicast service.

Range 1 to 2147483647

Introduced 16.0.R1

output-format *keyword*

Context **configure service vprn** *service-name* **video-interface** *interface-name*

Description Output format

Default rtp-udp

Options udp, rtp-udp

Introduced 16.0.R1

rt-client

Context **configure service vprn** *service-name* **video-interface** *interface-name*

Description Enter the rt-client context

Introduced 16.0.R1

src-address *ipv4-unicast-address*

Context **configure service vprn** *service-name* **video-interface** *interface-name* **rt-client**

Description An IP address for the RT client.

Introduced 16.0.R3

Notes This element is mandatory

video-sap

Context **configure service vprn** *service-name* **video-interface** *interface-name*

Description Enter the video-sap context

Introduced 16.0.R1

egress

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap**

Description Enter the egress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap egress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap egress filter**

Description ID for the IP filter policy

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap egress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap egress qos**

Description SAP-egress QoS policy

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

ingress

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap**

Description Enter the ingress context

Introduced 16.0.R1

filter

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap ingress**

Description Enter the filter context

Introduced 16.0.R1

ip *string*

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap ingress filter**

Description ID for the IP filter policy

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

qos

Context **configure service vprn** *service-name* **video-interface** *interface-name* **video-sap ingress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **video-sap ingress qos**
Description	SAP-ingress QoS policy
Reference	configure **qos sap-ingress** *qos-policy-name*
Introduced	16.0.R1

video-group-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **video-interface** *interface-name* **video-sap**
Description	Group id for the video interface.
Reference	configure **isa video-group** *number*
Introduced	16.0.R1
Notes	This element is mandatory

vprn-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name*
Description	VPRN type
Default	regular
Options	regular, hub, spoke, subscriber-split-horizon
Introduced	16.0.R1

vrf-export

Context	**configure service vprn** *service-name*
Description	Enter the vrf-export context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **vrf-export**
Description	Name of the export policy. The name of the policy is limited to 64 characters except for the first policy.
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

vrf-import

Context	**configure service vprn** *service-name*
Description	Enter the vrf-import context
Introduced	16.0.R1

policy *string*

Context	**configure service vprn** *service-name* **vrf-import**
Description	Name of the import policy. The name of the policy is limited to 64 characters except for the first policy.
String Length	1 to 255
Max. Elements	15
Min. Elements	1
Introduced	16.0.R1
Notes	This element is ordered by user

vrf-target

Context	**configure service vprn** *service-name*
Description	Enter the vrf-target context
Introduced	16.0.R1

community *route-target*

Context	**configure service vprn** *service-name* **vrf-target**
Description	Specify a extended BGP community in the form type:x:y. Type can be only target, x and y are 16 bit integers.
String Length	10 to 28
Introduced	16.0.R1
Notes	This element is part of a choice

export-community *route-target*

Context	**configure service vprn** *service-name* **vrf-target**
Description	Communities to be sent to remote PE neighbors
String Length	10 to 28
Introduced	16.0.R1
Notes	This element is part of a choice

import-community *route-target*

Context	**configure service vprn** *service-name* **vrf-target**
Description	Communities that are accepted from remote PE neighbors
String Length	10 to 28
Introduced	16.0.R1
Notes	This element is part of a choice

vxlan

Context	**configure service vprn** *service-name*
Description	Enter the vxlan context
Introduced	16.0.R1

tunnel-termination [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **vxlan**
Description	Enter the tunnel-termination context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure service vprn** *service-name* **vxlan tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Non system IP address to terminate the VXLAN
Introduced	16.0.R4
Notes	This element is part of a list key

fpe-id *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **vxlan tunnel-termination** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	FPE id for this entry
Reference	configure **fwd-path-ext fpe** *number*
Introduced	16.0.R4
Notes	This element is mandatory

weighted-ecmp *boolean*

Context	**configure service vprn** *service-name*
Description	Allow weighted load-balancing
Default	false
Introduced	16.0.R1

wlan-gw

Context	**configure service vprn** *service-name*
Description	Enter the wlan-gw context
Introduced	16.0.R1

distributed-subscriber-mgmt

Context	**configure service vprn** *service-name* **wlan-gw**
Description	Enter the distributed-subscriber-mgmt context
Introduced	16.0.R4

ipv6-tcp-mss-adjust *number*

Context	**configure service vprn** *service-name* **wlan-gw distributed-subscriber-mgmt**
Description	Insert or decrease the TCP Maximum Segment Size option to this value for upstream IPv6 SYN messages
Range	160 to 10240
Introduced	16.0.R4

mobility-triggered-accounting

Context	**configure service vprn** *service-name* **wlan-gw**
Description	Enter the mobility-triggered-accounting context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure service vprn** *service-name* **wlan-gw mobility-triggered-accounting**
Description	Administrative state of mobility-triggered-accounting
Default	disable
Options	enable, disable
Introduced	16.0.R4

hold-down *number*

Context	**configure service vprn** *service-name* **wlan-gw mobility-triggered-accounting**
Description	Hold additional mobility-triggered update until this timer expires
Range	60 to 86400
Units	seconds
Introduced	16.0.R4

include-counters *boolean*

Context	**configure service vprn** *service-name* **wlan-gw mobility-triggered-accounting**
Description	Include counters in interim updates
Default	false
Introduced	16.0.R4

xconnect

Context	**configure service vprn** *service-name* **wlan-gw**
Description	Enter the xconnect context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **wlan-gw xconnect**
Description	Administrative state of WLAN-GW cross-connect
Default	disable
Options	enable, disable
Introduced	16.0.R1

tunnel-source-ip *ipv6-prefix*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **wlan-gw xconnect**
Description	IPv6 address and prefix for the tunnel source
Introduced	16.0.R1

wlan-gw-group *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **wlan-gw xconnect**
Description	ISA WLAN Gateway group
Reference	configure **isa wlan-gw-group** *number*
Introduced	16.0.R1

wpp

Context	**configure service vprn** *service-name*
Description	Enter the wpp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure service vprn** *service-name* **wpp**
Description	Administrative state of WPP
Default	disable
Options	enable, disable
Introduced	16.0.R1

portal [name] *string*

Context	**configure service vprn** *service-name* **wpp**
Description	Enter the portal context
Introduced	16.0.R1

[name] *string*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	WPP portal name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

ack-auth-retry-count *number*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Number of retransmissions of an ACK_OUT message
Range	0 to 5
Default	5
Introduced	16.0.R1

address *ipv4-unicast-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	WPP portal address
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Administrative state of the WPP portal
Default	disable
Options	enable, disable
Introduced	16.0.R1

ntf-logout-retry-count *number*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Number of retransmissions of an NTF_LOGOUT message
Range	0 to 5
Default	5
Introduced	16.0.R1

port-format *keyword*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Format of the port in the ACK_INO message
Default	standard
Options	standard, vendor-specific
Introduced	16.0.R1

retry-interval *number*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Time between two consecutive retransmissions
Range	10 to 2000
Default	2000
Units	milliseconds
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Message authentication between portal and BRAS by applying the secret used by WPPv2
String Length	1 to 114
Introduced	16.0.R1

version *number*

Context	**configure service vprn** *service-name* **wpp portal** *string*
Description	Protocol version to be expected by the WPP portal
Range	1 | 2
Default	1
Introduced	16.0.R1

36 sfm Commands

configure
- — **sfm** *number*
  - — **admin-state** *keyword*
  - — **sfm-type** *keyword*

36.1 sfm Command Descriptions

sfm [sfm-slot] *number*

Context	**configure**
Description	Enter the sfm context
Introduced	16.0.R1

[sfm-slot] *number*

Context	**configure sfm** *number*
Description	Unique value to identify this SFM slot within a chassis in the system
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure sfm** *number*
Description	Administrative state of SFM
Default	enable
Options	enable, disable
Introduced	16.0.R1

sfm-type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure sfm** *number*
Description	Provision the SFM type
Options	sfm-x20, m-sfm4-12e, sfm-x20-b, sfm-x16-b, m-sfm5-7, m-sfm5-12, m-sfm5-12e, sfm-x20s-b, sfm-s, m-sfm6-12e, sfm2-x20s, sfm-2s, m-sfm6-7/12
Introduced	16.0.R1

37 subscriber-mgmt Commands

configure
- — **subscriber-mgmt**
  - — **accu-stats-policy** *string*
    - — **description** *string*
    - — **egress** *type* **id** *id*
    - — **ingress** *type* **id** *id*
  - — **ancp**
    - — **ancp-policy** *string*
      - — **egress**
        - — **rate-adjustment** *number*
        - — **rate-modify**
          - — **agg-rate**
          - — **scheduler** *string*
        - — **rate-monitor**
          - — **alarm** *boolean*
          - — **rate** *number*
        - — **rate-reduction** *number*
      - — **ingress**
        - — **rate-adjustment** *number*
        - — **rate-modify**
          - — **scheduler** *string*
        - — **rate-monitor**
          - — **alarm** *boolean*
          - — **rate** *number*
        - — **rate-reduction** *number*
      - — **port-down**
        - — **suspend-shcv**
          - — **alarm** *boolean*
          - — **hold-time** *number*
    - — **ancp-static-map**
      - — **multi-service-site-entry** *ancp-string* **customer-name** *string* **customer-site-name** *string*
        - — **ancp-policy** *string*
      - — **sap-entry** *ancp-string* **sap-id** *sap*
        - — **ancp-policy** *string*
  - — **auto-sub-id**
    - — **implicit-generation** *boolean*
    - — **ipoe-key** *sub-id-key-ipoe*
    - — **ppp-key** *sub-id-key-ppp*
  - — **bgp-peering-policy** *string*
    - — **advertise-inactive** *boolean*
    - — **aggregator-id-zero** *boolean*
    - — **as-override** *boolean*
    - — **asn-4-byte** *boolean*
    - — **authentication-key** *encrypted-leaf*
    - — **authentication-keychain** *string*
    - — **client-reflect** *boolean*
    - — **cluster** *ipv4-address*
    - — **connect-retry** *number*
    - — **damping** *boolean*
    - — **description** *string*

```
        — export string
        — fast-external-failover boolean
        — hold-time number
        — import string
        — keepalive number
        — local-address (ipv4-address-no-zone | ipv6-address-no-zone)
        — local-as
            — as-number number
            — private boolean
        — local-preference number
        — loop-detect keyword
        — med-out (number | keyword)
        — min-route-advertisement number
        — multihop number
        — next-hop-self boolean
        — passive boolean
        — peer-as number
        — preference number
        — prefix-limit number
        — remove-private
            — limited boolean
        — send-communities
            — extended boolean
            — standard boolean
        — ttl-security number
        — type keyword
    — category-map string
        — activity-threshold activity-threshold
        — category string
            — credit-type-override keyword
            — default-credit
                — time number
                — volume
                    — unit keyword
                    — value number
            — description string
            — egress
                — policer number
                — queue number
            — exhausted-credit-service-level
                — egress
                    — ip-filter
                        — entry number
                            — action
                                — drop
                                — forward
                                — http-redirect
                                    — allow-override boolean
                                    — url http-redirect-url
                            — description string
                            — match
                                — dscp keyword
                                — dst-port
                                    — eq number
```

```
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — fragment keyword
                — icmp
                    — code number
                    — type number
                — ip-option
                    — mask number
                    — type number
                — multiple-option boolean
                — option-present boolean
                — protocol (number | keyword)
                — src-ip ipv4-address-and-mask
                — src-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — tcp-flags
                    — ack boolean
                    — syn boolean
    — ipv6-filter
        — entry number
            — action
                — drop
                — forward
            — description string
            — match
                — dscp keyword
                — dst-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — icmp
                    — code number
                    — type number
                — next-header (number | keyword)
                — src-ip ipv6-address-and-mask
                — src-port
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
                        — start number
                — tcp-flags
```

```
                    — ack boolean
                    — syn boolean
            — ingress
                — ip-filter
                    — entry number
                        — action
                            — drop
                            — forward
                            — http-redirect
                                — allow-override boolean
                                — url http-redirect-url
                        — description string
                        — match
                            — dscp keyword
                            — dst-ip ipv4-address-and-mask
                            — dst-port
                                — eq number
                                — gt number
                                — lt number
                                — range
                                    — end number
                                    — start number
                            — fragment keyword
                            — icmp
                                — code number
                                — type number
                            — ip-option
                                — mask number
                                — type number
                            — multiple-option boolean
                            — option-present boolean
                            — protocol (number | keyword)
                            — src-port
                                — eq number
                                — gt number
                                — lt number
                                — range
                                    — end number
                                    — start number
                            — tcp-flags
                                — ack boolean
                                — syn boolean
                — ipv6-filter
                    — entry number
                        — action
                            — drop
                            — forward
                        — description string
                        — match
                            — dscp keyword
                            — dst-ip ipv6-address-and-mask
                            — dst-port
                                — eq number
                                — gt number
```

```
                        — lt number
                        — range
                            — end number
                            — start number
                    — icmp
                        — code number
                        — type number
                    — next-header (number | keyword)
                    — src-port
                        — eq number
                        — gt number
                        — lt number
                        — range
                            — end number
                            — start number
                    — tcp-flags
                        — ack boolean
                        — syn boolean
            — pir (number | keyword)
        — ingress
            — policer number
            — queue number
        — out-of-credit-action-override keyword
        — rating-group number
    — credit-exhaust-threshold number
    — credit-type keyword
    — description string
    — gx-session-level-usage boolean
— credit-control-policy string
    — default-category-map string
    — description string
    — error-handling-action keyword
    — out-of-credit-action keyword
    — server
        — diameter string
        — radius
— diameter-gx-policy string
    — description string
    — gx
        — avp-subscription-id
            — origin keyword
            — type keyword
        — ccrt-replay
            — interval number
            — max-lifetime number
        — include-avp
            — an-gw-address boolean
            — apn-ambr boolean
            — called-station-id boolean
            — calling-station-id
                — type keyword
            — ip-can-type boolean
            — logical-access-id boolean
            — nas-port
```

```
            — bit-spec binary-specification
        — nas-port-id
            — prefix-string string
            — suffix
                — circuit-id
                — not-included
                — remote-id
                — user-string string
        — nas-port-type
            — type number
        — pdn-connection-id boolean
        — physical-access-id boolean
        — rai boolean
        — rat-type boolean
        — sgsn-mcc-mnc boolean
        — supported-features boolean
        — user-equipment-info
            — type keyword
        — user-location-info boolean
    — mac-format mac-specification
    — report-ip-address-event boolean
    — three-gpp-qos-mapping
        — apn-ambr-dl
            — aggregate-rate
            — arbiter string
            — hs-sla-agg-rate
            — ignore-override
            — policer number
            — queue number
            — scheduler string
        — apn-ambr-ul
            — arbiter string
            — ignore-override
            — policer number
            — queue number
            — scheduler string
— node
    — destination-realm string
    — origin-host string
— on-failure
    — failover boolean
    — handling keyword
— peer-policy string
— statistics
— tx-timer number
— diameter-gy-policy string
— description string
— gy
    — avp-subscription-id
        — origin keyword
        — type keyword
    — ccrt-replay
        — interval number
        — max-lifetime number
```

- **extended-failure-handling**
  - **admin-state** *keyword*
  - **interim-credit**
    - **max-attempts** (*number* | *keyword*)
    - **reporting** *boolean*
    - **validity-time** (*number* | *keyword*)
    - **volume**
      - **credits** *number*
      - **units** *keyword*
  - **new-session-id** *boolean*
- **include-avp**
  - **aaa-user-name** *boolean*
  - **address-avp** *boolean*
  - **called-station-id**
    - **id** *string*
  - **charging-rule-base-name**
    - **category-map**
    - **not-included**
    - **user-string** *string*
  - **ggsn-address**
    - **type** *keyword*
  - **pdp-context-type** *boolean*
  - **ps-information** *boolean*
  - **service-context-id**
    - **id** *string*
  - **three-gpp-charging-characteristics** *boolean*
  - **three-gpp-charging-id** *keyword*
  - **three-gpp-ggsn-ipv4-address** *boolean*
  - **three-gpp-ggsn-ipv6-address** *boolean*
  - **three-gpp-gprs-negotiated-qos-profile** *boolean*
  - **three-gpp-imsi** *keyword*
  - **three-gpp-nsapi** *boolean*
  - **three-gpp-rat-type**
    - **type** *number*
  - **three-gpp-selection-mode** *boolean*
  - **three-gpp-session-stop-indicator** *boolean*
  - **three-gpp-user-location-info** *boolean*
  - **user-equipment-info-type**
    - **type** *keyword*
  - **mac-format** *mac-specification*
  - **out-of-credit-reporting** *keyword*
  - **vendor-support** *diam-vendor-support*
- **node**
  - **destination-realm** *string*
  - **origin-host** *string*
- **on-failure**
  - **failover** *boolean*
  - **handling** *keyword*
- **peer-policy** *string*
- **statistics**
- **tx-timer** *number*

- **diameter-nasreq-policy** *string*
  - **description** *string*
  - **nasreq**

```
        — include-avp
            — called-station-id boolean
            — calling-station-id
                — type keyword
            — circuit-id boolean
            — imei boolean
            — nas-port
                — bit-spec binary-specification
            — nas-port-id
                — prefix-string string
                — suffix
                    — circuit-id
                    — not-included
                    — remote-id
                    — user-string string
            — nas-port-type
                — type (keyword | number)
            — rat-type boolean
            — remote-id boolean
            — user-location-info boolean
        — mac-format mac-specification
        — password encrypted-leaf
        — user-name
            — domain-name string
            — format keyword
            — operation user-name-format-domain-operation
    — node
        — destination-realm string
        — origin-host string
    — on-failure
        — failover boolean
        — handling keyword
    — peer-policy string
    — statistics
    — tx-timer number
— explicit-subscriber-map
    — entry subscriber-id
        — alias string
        — sla-profile string
        — sub-profile string
— gtp
    — apn-policy string
        — apn string
            — defaults
                — group-interface
                    — name interface-name
                    — svc-name service-name
            — diameter-nasreq-policy string
            — radius-auth-policy string
            — skip-gtp-ipv4-allocation boolean
            — user-db string
    — max-held-uplink-sessions number
    — peer-profile string
        — description string
```

- **interface-type** *keyword*
- **ip-ttl** *number*
- **keep-alive**
  - **admin-state** *keyword*
  - **interval** *number*
  - **retry-count** *number*
  - **timeout** *number*
- **message-retransmit**
  - **retry-count** *number*
  - **timeout** *number*
- **python-policy** *string*
- **s11**
  - **change-reporting-action** (*number* | *keyword*)
  - **end-marker-count** *number*
  - **ipv4-mtu** *number*
  - **qos**
    - **ambr**
      - **down-link** *number*
      - **up-link** *number*
    - **arp** *number*
    - **down-link**
      - **gbr** *number*
      - **mbr** *number*
    - **qci** *number*
    - **up-link**
      - **gbr** *number*
      - **mbr** *number*
- **uplink**
  - **charging-characteristics**
    - **home**
      - **bit0** *boolean*
      - **bit1** *boolean*
      - **bit10** *boolean*
      - **bit11** *boolean*
      - **bit12** *boolean*
      - **bit13** *boolean*
      - **bit14** *boolean*
      - **bit15** *boolean*
      - **bit2** *boolean*
      - **bit3** *boolean*
      - **bit4** *boolean*
      - **bit5** *boolean*
      - **bit6** *boolean*
      - **bit7** *boolean*
      - **bit8** *boolean*
      - **bit9** *boolean*
    - **roaming**
      - **bit0** *boolean*
      - **bit1** *boolean*
      - **bit10** *boolean*
      - **bit11** *boolean*
      - **bit12** *boolean*
      - **bit13** *boolean*
      - **bit14** *boolean*

- **bit15** *boolean*
- **bit2** *boolean*
- **bit3** *boolean*
- **bit4** *boolean*
- **bit5** *boolean*
- **bit6** *boolean*
- **bit7** *boolean*
- **bit8** *boolean*
- **bit9** *boolean*

- **ggsn**
  - **qos**
    - **ambr**
      - **down-link** *number*
      - **up-link** *number*
    - **arp** *number*
    - **down-link**
      - **gbr** *number*
      - **mbr** *number*
    - **up-link**
      - **gbr** *number*
      - **mbr** *number*
- **pgw**
  - **qos**
    - **ambr**
      - **down-link** *number*
      - **up-link** *number*
    - **arp** *number*
    - **down-link**
      - **gbr** *number*
      - **mbr** *number*
    - **qci** *number*
    - **up-link**
      - **gbr** *number*
      - **mbr** *number*
  - **protocol-configuration-options** *keyword*
  - **rat-type** (*number* | *keyword*)
  - **report-wlan-location** *boolean*
  - **session-hold-time** (*number* | *keyword*)
- **serving-network**
  - **mcc** *string*
  - **mnc** *string*

- **host-lockout-policy** *string*
  - **description** *string*
  - **host-key** *keyword*
  - **lockout-reset-time** *number*
  - **lockout-time**
    - **max** *number*
    - **min** *number*
  - **max-lockout-hosts** *number*
- **host-tracking-policy** *string*
  - **description** *string*
  - **egress-rate-modify**
    - **agg-rate**
    - **scheduler** *string*

- **http-redirect-policy** *string*
  - **description** *string*
  - **dst-port** *number*
  - **forward-entry dst-ip** (*ipv4-prefix* | *ipv6-prefix*) **protocol** *keyword* **dst-port** *number*
  - **portal-hold-time** *number*
  - **url** *http-redirect-url*
- **igmp-policy** *string*
  - **description** *string*
  - **egress-rate-modify**
    - **agg-rate**
    - **scheduler** *string*
  - **fast-leave** *boolean*
  - **import-policy** *string*
  - **maximum-number-group-sources** *number*
  - **maximum-number-groups** *number*
  - **maximum-number-sources** *number*
  - **multicast-reporter**
    - **admin-state** *keyword*
    - **destination** *string*
    - **optional-fields**
      - **host-mac** *boolean*
      - **pppoe-session-id** *boolean*
      - **sap-id** *boolean*
      - **svc-id** *boolean*
  - **query-interval** *number*
  - **query-last-member-interval** *number*
  - **query-response-interval** *number*
  - **redirection-policy** *string*
  - **replication** *keyword*
  - **router-alert-check** *boolean*
  - **static**
    - **group** *ipv4-multicast-address*
      - **source** *ipv4-unicast-address*
      - **starg**
  - **use-multicast-destination-mac** *boolean*
  - **version** *keyword*
- **ipoe-session-policy** *string*
  - **circuit-id-from-auth** *boolean*
  - **description** *string*
  - **session-key**
    - **cid** *boolean*
    - **mac** *boolean*
    - **rid** *boolean*
    - **sap** *boolean*
  - **session-timeout** (*number* | *keyword*)
- **isa-filter** *string*
  - **description** *string*
  - **ipv4**
    - **default-action** *keyword*
    - **entry** *number*
      - **action**
        - **drop**
        - **forward**
      - **description** *string*

```
            — match
                — dst-ip ipv4-prefix
                — dst-port
                    — equals number
                — protocol keyword
        — ipv6
            — default-action keyword
            — entry number
                — action
                    — drop
                    — forward
                — description string
                — match
                    — dst-ip ipv6-prefix
                    — dst-port
                        — equals number
                    — protocol keyword
            — type keyword
    — isa-policer string
        — action keyword
        — adaptation-rule
            — cir keyword
            — pir keyword
        — cbs number
        — description string
        — mbs number
        — rate
            — cir (kilobytes | keyword)
            — pir (kilobytes | keyword)
        — type keyword
    — isa-service-chaining
        — evpn service-name
            — admin-state keyword
            — bgp
                — route-distinguisher
                    — rd (keyword | vpn-route-distinguisher)
                — route-target
                    — export route-target-32
                    — import route-target-32
            — description string
            — export
                — advertise-pools
                    — admin-state keyword
                    — pool router-instance string name string
                — gateway-address-range
                    — end ipv4-unicast-address
                    — start ipv4-unicast-address
                — vxlan
                    — vni number
            — import-mode keyword
        — mac-prefix string
        — vas-filter string
            — description string
            — entry number
```

```
            — action keyword
                — fail-action keyword
                — forward
                    — esi ethernet-segment-id
                    — sf-ip (ipv4-address-no-zone | ipv6-address-no-zone)
                    — svc string
                — insert-nsh
                    — meta-data
                        — insert-subscriber-id
                        — opaque-data string
                    — svc-path
                        — path-id number
                        — svc-index number
            — admin-state keyword
            — description string
            — match
                — foreign-ip (string | string)
                — foreign-port number
                — protocol keyword
    — local-user-db string
        — admin-state keyword
        — description string
        — ipoe
            — host string
                — admin-state keyword
                — authentication
                    — auth-domain-name string
                    — gx-policy string
                    — nasreq-auth-policy string
                    — radius-auth-policy string
                — gtp-interface
                    — name string
                    — service-id number
                — host-identification
                    — circuit-id
                        — ascii-string string
                        — hex-string string
                    — derived-id string
                    — encap-tag-range
                        — from atm-or-vlan-encap
                        — to atm-or-vlan-encap
                    — ip-prefix (ipv4-prefix-with-host-bits | ipv6-prefix-with-host-bits)
                    — mac mac-unicast-address
                    — option60
                        — ascii-string string
                        — hex-string string
                    — remote-id
                        — ascii-string string
                        — hex-string string
                    — sap-id string
                    — service-id number
                    — string string
                    — system-id string
                — identification
```

- **ancp-string** *string*
- **category-map-name** *string*
- **int-dest-id** *int-dest-id*
- **option-number** *number*
- **sla-profile-string** *string*
- **spi-sharing-group-id** *number*
- **sub-profile-string** *string*
- **subscriber-id** *string*

ipv4
- **address**
  - **gi-address** *keyword*
  - **ip-address** *ipv4-unicast-address*
  - **pool**
    - **delimiter** *string*
    - **primary** *string*
    - **secondary** *string*
  - **use-pool-from-client**
    - **delimiter** *string*
- **gi-address** *ipv4-unicast-address*
- **option** (*number* | *keyword*)
  - **ascii-string** *string*
  - **duration** *number*
  - **empty**
  - **hex-string** *string*
  - **ipv4-address** *ipv4-address*
  - **netbios-node-type** *keyword*
- **server** *ipv4-unicast-address*

ipv6
- **address** *ipv6-unicast-address*
- **address-pool** *string*
- **delegated-prefix** *ipv6-unicast-prefix*
- **delegated-prefix-length** *number*
- **delegated-prefix-pool** *string*
- **link-address** *ipv6-unicast-address*
- **option** (*number* | *keyword*)
  - **hex-string** *string*
  - **ipv6-address** *ipv6-address*
- **router-advertisement-policy** *string*
- **server** *ipv6-unicast-address*
- **slaac-prefix** *ipv6-unicast-prefix*
- **slaac-prefix-pool** *string*
- **timers**
  - **preferred-lifetime** (*number* | *keyword*)
  - **rebind** *number*
  - **renew** *number*
  - **valid-lifetime** (*number* | *keyword*)

match-radius-proxy-cache
- **fail-action** *keyword*
- **mac-format** *mac-specification*
- **match**
  - **circuit-id** *boolean*
  - **ipv4-option** *number*
  - **ipv6-option** *number*
  - **mac** *boolean*

```
            — remote-id boolean
        — server
            — name string
            — service number
    — mld-import string
    — msap-defaults
        — group-interface
            — name string
            — prefix keyword
            — suffix keyword
        — policy string
        — service number
    — radius-accounting-policy
        — duplicate string
        — name string
    — retail-service-id number
    — rip-policy string
    — to-client-options
        — ipv4-option (number | keyword)
            — ascii-string string
            — duration number
            — empty
            — hex-string string
            — ipv4-address ipv4-address
            — netbios-node-type keyword
        — ipv6-option (number | keyword)
            — ascii-string string
            — domain-string string
            — empty
            — hex-string string
            — ipv6-address ipv6-address
    — to-server-options
        — ipv6-option (number | keyword)
            — ascii-string string
            — domain-string string
            — empty
            — hex-string string
            — ipv6-address ipv6-address
    — wpp
        — initial
            — sla-profile string
            — sub-profile string
        — portal
            — name string
            — portal-group string
            — router-instance (keyword | number)
        — restore-to-initial-on-disconnect keyword
— mask type keyword
    — prefix
        — length number
        — string string
    — suffix
        — length number
        — string string
```

- **match-list** *keyword*
- **ppp**
  - **host** *string*
    - **access-loop-encapsulation**
      - **encap-offset**
        - **type** *keyword*
      - **rate-down** *number*
    - **access-loop-information**
      - **circuit-id**
        - **ascii-string** *string*
        - **sap-id** *boolean*
      - **remote-id**
        - **ascii-string** *string*
        - **mac** *boolean*
    - **admin-state** *keyword*
    - **authentication**
      - **gx-policy** *string*
      - **nasreq-auth-policy** *string*
      - **padi-auth-policy** *string*
      - **pre-auth-policy** *string*
      - **radius-auth-policy** *string*
      - **user-db** *string*
    - **host-identification**
      - **circuit-id**
        - **ascii-string** *string*
        - **hex-string** *string*
      - **derived-id** *string*
      - **encap-tag-range**
        - **from** *atm-or-vlan-encap*
        - **to** *atm-or-vlan-encap*
      - **mac** *mac-unicast-address*
      - **remote-id**
        - **ascii-string** *string*
        - **hex-string** *string*
      - **sap-id** *string*
      - **service-name** *string*
      - **user-name**
        - **format** *keyword*
        - **name** *string*
    - **identification**
      - **ancp-string** *string*
      - **category-map-name** *string*
      - **int-dest-id** *int-dest-id*
      - **option-number** *number*
      - **sla-profile-string** *string*
      - **spi-sharing-group-id** *number*
      - **sub-profile-string** *string*
      - **subscriber-id** *string*
    - **ipv4**
      - **address**
        - **gi-address** *keyword*
        - **ip-address** *ipv4-unicast-address*
        - **pool**
          - **delimiter** *string*

```
                    — primary string
                    — secondary string
                — use-pool-from-client
                    — delimiter string
            — ignore-df-bit boolean
            — option (number | keyword)
                — ascii-string string
                — duration number
                — empty
                — hex-string string
                — ipv4-address ipv4-address
                — netbios-node-type keyword
        — ipv6
            — address ipv6-unicast-address
            — address-pool string
            — delegated-prefix ipv6-unicast-prefix
            — delegated-prefix-length number
            — delegated-prefix-pool string
            — force-ipv6cp boolean
            — option (number | keyword)
                — hex-string string
                — ipv6-address ipv6-address
            — router-advertisement-policy string
            — slaac-prefix ipv6-unicast-prefix
            — slaac-prefix-pool string
            — timers
                — preferred-lifetime (number | keyword)
                — rebind number
                — renew number
                — valid-lifetime (number | keyword)
        — l2tp
            — group
                — name string
                — service-id number
        — lns-interface
            — name string
            — service-id number
        — mld-import string
        — msap-defaults
            — group-interface
                — name string
                — prefix keyword
                — suffix keyword
            — policy string
            — service number
        — pado-delay number
        — password
            — chap encrypted-leaf
            — ignore
            — pap encrypted-leaf
        — radius-accounting-policy
            — duplicate string
            — name string
        — retail-service-id number
```

```
            — rip-policy string
            — steering-profile string
            — to-client-options
                — ipv6-option (number | keyword)
                    — ascii-string string
                    — domain-string string
                    — empty
                    — hex-string string
                    — ipv6-address ipv6-address
            — mask type keyword
                — prefix
                    — length number
                    — string string
                — suffix
                    — length number
                    — string string
            — match-list keyword
    — mld-policy string
        — description string
        — egress-rate-modify
            — agg-rate
            — scheduler string
        — fast-leave boolean
        — import-policy string
        — maximum-number-group-sources number
        — maximum-number-groups number
        — maximum-number-sources number
        — query-interval number
        — query-last-member-interval number
        — query-response-interval number
        — redirection-policy string
        — replication keyword
        — router-alert-check boolean
        — static
            — group ipv6-multicast-address
                — source ipv6-unicast-address
                — starg
        — use-multicast-destination-mac boolean
        — version keyword
    — msap-policy string
        — cpu-protection
            — ip-src-monitoring
            — mac-monitoring
            — policy-id string
        — description string
        — dist-cpu-protection string
        — ies-vprn-only-sap-parameters
            — anti-spoof keyword
            — egress
                — qos
                    — policy-name string
            — ingress
                — qos
                    — policy-name string
```

```
            — queuing-type keyword
    — igmp-host-tracking
        — expiry-time number
        — import-policy string
        — maximum-number-group-sources number
        — maximum-number-groups number
        — maximum-number-sources number
    — lag-link-map-profile number
    — sticky-msaps boolean
    — sub-sla-mgmt
        — defaults
            — int-dest-id
                — string int-dest-id
                — top-q-tag
            — sla-profile string
            — sub-profile string
            — subscriber-id
                — auto-id
                — sap-id
                — string subscriber-id
        — single-sub-parameters
            — non-sub-traffic-profiles
                — sla-profile string
                — sub-profile string
                — subscriber-id subscriber-id
            — profiled-traffic-only boolean
        — sub-ident-policy string
        — subscriber-limit sap-subscriber-limit
    — vpls-only-sap-parameters
        — arp-host
            — host-limit sap-host-limit
            — min-auth-interval number
        — arp-reply-agent keyword
        — dhcp
            — lease-populate sap-lease-state-limit
            — option-82
                — action keyword
                — circuit-id keyword
                — remote-id
                    — mac
                    — string string
                — vendor-specific-option
                    — client-mac-address boolean
                    — sap-id boolean
                    — service-id boolean
                    — string string
                    — system-id boolean
            — proxy-server
                — admin-state keyword
                — emulated-server ipv4-unicast-address
                — lease-time
                    — radius-override boolean
                    — value number
        — egress
```

```
            — qos
                — policy-name string
        — igmp-snooping
            — fast-leave boolean
            — import-policy string
            — maximum-number-groups (keyword | number)
            — mcac
                — bandwidth
                    — mandatory (number | keyword)
                    — total (number | keyword)
                — interface-policy string
                — mc-constraints
                    — level number
                        — bandwidth number
                    — number-down number
                        — level number
                    — use-lag-port-weight boolean
                — policy string
            — mvr
                — from-vpls string
            — query-interval number
            — query-last-member-interval number
            — query-response-interval number
            — robust-count number
            — send-queries boolean
            — version keyword
        — ingress
            — qos
                — policy-name string
                — queuing-type keyword
        — mac-da-hashing boolean
        — split-horizon-group string
— pim-policy string
    — description string
— ppp-policy string
    — allow-same-circuit-id-for-dhcp boolean
    — cookies boolean
    — default-pap-password encrypted-leaf
    — default-user-name string
    — description string
    — force-ppp-mtu-gt-1492 boolean
    — ipcp-subnet-negotiation boolean
    — keepalive
        — hold-up-multiplier number
        — interval number
    — lcp-ignore-magic-numbers boolean
    — max-sessions-per-mac number
    — mlppp
        — accept-mrru boolean
        — endpoint
            — ip (string | keyword)
            — mac (string | keyword)
        — short-sequence-numbers boolean
    — pado-ac-name string
```

- — **pado-delay** *number*
- — **ppp-authentication** *keyword*
- — **ppp-chap-challenge-length**
  - — **max** *number*
  - — **min** *number*
- — **ppp-initial-delay** *boolean*
- — **ppp-mtu** *number*
- — **ppp-options**
  - — **custom-option protocol** *keyword* **option-number** *number*
    - — **address** *ipv4-address*
    - — **ascii-string** *string*
    - — **empty**
    - — **hex-string** *string*
- — **re-establish-session** *boolean*
- — **reject-unconfigured-ncp** *boolean*
- — **reply-on-padt** *boolean*
- — **session-timeout** *number*
- — **unique-sid** *keyword*

— **pppoe-client-policy** *string*
- — **description** *string*
- — **keepalive**
  - — **hold-up-multiplier** *number*
  - — **interval** *number*
- — **mru** *number*
- — **mtu** *number*
- — **python-policy** *string*
- — **restart-backoff**
  - — **initial-time** *number*
  - — **max-time** *number*
- — **stack**
  - — **ipv4** *boolean*
  - — **ipv6-slaac** *boolean*

— **radius-accounting-policy** *string*
- — **acct-tunnel-connection-fmt** *ascii-specification*
- — **custom-record**
  - — **override-counter** *number*
    - — **e-counters**
      - — **in-profile-octets-discarded-count** *boolean*
      - — **in-profile-octets-forwarded-count** *boolean*
      - — **in-profile-packets-discarded-count** *boolean*
      - — **in-profile-packets-forwarded-count** *boolean*
      - — **out-profile-octets-discarded-count** *boolean*
      - — **out-profile-octets-forwarded-count** *boolean*
      - — **out-profile-packets-discarded-count** *boolean*
      - — **out-profile-packets-forwarded-count** *boolean*
    - — **i-counters**
      - — **all-octets-offered-count** *boolean*
      - — **all-packets-offered-count** *boolean*
      - — **high-octets-discarded-count** *boolean*
      - — **high-packets-discarded-count** *boolean*
      - — **in-profile-octets-forwarded-count** *boolean*
      - — **in-profile-packets-forwarded-count** *boolean*
      - — **low-octets-discarded-count** *boolean*
      - — **low-packets-discarded-count** *boolean*

```
            — out-profile-octets-forwarded-count boolean
            — out-profile-packets-forwarded-count boolean
        — queue number
            — e-counters
                — in-profile-octets-discarded-count boolean
                — in-profile-octets-forwarded-count boolean
                — in-profile-packets-discarded-count boolean
                — in-profile-packets-forwarded-count boolean
                — out-profile-octets-discarded-count boolean
                — out-profile-octets-forwarded-count boolean
                — out-profile-packets-discarded-count boolean
                — out-profile-packets-forwarded-count boolean
            — i-counters
                — all-octets-offered-count boolean
                — all-packets-offered-count boolean
                — high-octets-discarded-count boolean
                — high-octets-offered-count boolean
                — high-packets-discarded-count boolean
                — high-packets-offered-count boolean
                — in-profile-octets-forwarded-count boolean
                — in-profile-packets-forwarded-count boolean
                — low-octets-discarded-count boolean
                — low-octets-offered-count boolean
                — low-packets-discarded-count boolean
                — low-packets-offered-count boolean
                — out-profile-octets-forwarded-count boolean
                — out-profile-packets-forwarded-count boolean
                — uncoloured-octets-offered-count boolean
                — uncoloured-packets-offered-count boolean
        — ref-override-counter
            — all
            — e-counters
                — in-profile-octets-discarded-count boolean
                — in-profile-octets-forwarded-count boolean
                — in-profile-packets-discarded-count boolean
                — in-profile-packets-forwarded-count boolean
                — out-profile-octets-discarded-count boolean
                — out-profile-octets-forwarded-count boolean
                — out-profile-packets-discarded-count boolean
                — out-profile-packets-forwarded-count boolean
            — i-counters
                — all-octets-offered-count boolean
                — all-packets-offered-count boolean
                — high-octets-discarded-count boolean
                — high-packets-discarded-count boolean
                — in-profile-octets-forwarded-count boolean
                — in-profile-packets-forwarded-count boolean
                — low-octets-discarded-count boolean
                — low-packets-discarded-count boolean
                — out-profile-octets-forwarded-count boolean
                — out-profile-packets-forwarded-count boolean
            — id string
        — ref-queue
            — all
```

- **e-counters**
  - **in-profile-octets-discarded-count** *boolean*
  - **in-profile-octets-forwarded-count** *boolean*
  - **in-profile-packets-discarded-count** *boolean*
  - **in-profile-packets-forwarded-count** *boolean*
  - **out-profile-octets-discarded-count** *boolean*
  - **out-profile-octets-forwarded-count** *boolean*
  - **out-profile-packets-discarded-count** *boolean*
  - **out-profile-packets-forwarded-count** *boolean*
- **i-counters**
  - **all-octets-offered-count** *boolean*
  - **all-packets-offered-count** *boolean*
  - **high-octets-discarded-count** *boolean*
  - **high-octets-offered-count** *boolean*
  - **high-packets-discarded-count** *boolean*
  - **high-packets-offered-count** *boolean*
  - **in-profile-octets-forwarded-count** *boolean*
  - **in-profile-packets-forwarded-count** *boolean*
  - **low-octets-discarded-count** *boolean*
  - **low-octets-offered-count** *boolean*
  - **low-packets-discarded-count** *boolean*
  - **low-packets-offered-count** *boolean*
  - **out-profile-octets-forwarded-count** *boolean*
  - **out-profile-packets-forwarded-count** *boolean*
  - **uncoloured-octets-offered-count** *boolean*
  - **uncoloured-packets-offered-count** *boolean*
- **id** *string*
- **significant-change** *number*

- **delay-start-time** *number*
- **description** *string*
- **host-accounting**
  - **admin-state** *keyword*
  - **interim-update** *boolean*
- **include-radius-attribute**
  - **access-loop-options** *boolean*
  - **acct-authentic** *boolean*
  - **acct-delay-time** *boolean*
  - **acct-triggered-reason** *boolean*
  - **all-authorized-session-addresses** *boolean*
  - **apn** *boolean*
  - **bearer-fteid** *boolean*
  - **bonding-active-connections** *boolean*
  - **bonding-id** *boolean*
  - **brg-num-active-sessions** *boolean*
  - **called-station-id** *boolean*
  - **calling-station-id**
    - **type** *keyword*
  - **circuit-id** *boolean*
  - **delegated-ipv6-prefix** *boolean*
  - **detailed-acct-attributes** *boolean*
  - **dhcp-vendor-class-id** *boolean*
  - **error-code** *boolean*
  - **firewall-info** *boolean*
  - **framed-interface-id** *boolean*

- **framed-ip-address** *boolean*
- **framed-ip-netmask** *boolean*
- **framed-ipv6-prefix** *boolean*
- **framed-ipv6-route** *boolean*
- **framed-route** *boolean*
- **imei** *boolean*
- **ipv6-address** *boolean*
- **lanext-bridge-id** *boolean*
- **lanext-device-type** *boolean*
- **lanext-route-distinguisher** *boolean*
- **lanext-route-target** *boolean*
- **lanext-vni** *boolean*
- **mac-address** *boolean*
- **msisdn** *boolean*
- **nas-identifier** *boolean*
- **nas-port**
  - **bit-spec** *binary-specification*
- **nas-port-id**
  - **prefix-string** *string*
  - **suffix** *keyword*
- **nas-port-type**
  - **type** (*keyword* | *number*)
- **nat-port-range** *boolean*
- **remote-id** *boolean*
- **sla-profile** *boolean*
- **spi-sharing-id** *boolean*
- **std-acct-attributes** *boolean*
- **steering-profile** *boolean*
- **sub-profile** *boolean*
- **subscriber-id** *boolean*
- **tunnel-client-attrs** *boolean*
- **tunnel-server-attrs** *boolean*
- **uli** *boolean*
- **user-name** *boolean*
- **v6-aggregate-stats** *boolean*
- **wifi-num-attached-ues** *boolean*
- **wifi-rssi** *boolean*
- **wifi-ssid-vlan** *boolean*
- **xconnect-tunnel-home-address** *boolean*

- **queue-instance-accounting**
  - **admin-state** *keyword*
  - **interim-update** *boolean*
- **radius-server-policy** *string*
- **session-accounting**
  - **admin-state** *keyword*
  - **host-update** *boolean*
  - **interim-update** *boolean*
- **session-id-format** *keyword*
- **triggered-updates**
  - **gtp-mobility** *boolean*
- **update-interval**
  - **interval** *number*
  - **jitter** (*keyword* | *number*)

- **radius-authentication-policy** *string*

- **description** *string*
- **fallback**
  - **action**
    - **accept**
    - **user-db** *string*
  - **force-probing** *boolean*
- **include-radius-attribute**
  - **access-loop-options** *boolean*
  - **acct-session-id**
    - **type** *keyword*
  - **apn** *boolean*
  - **called-station-id** *boolean*
  - **calling-station-id**
    - **type** *keyword*
  - **circuit-id** *boolean*
  - **dhcp-options** *boolean*
  - **dhcp-vendor-class-id** *boolean*
  - **dhcp6-options** *boolean*
  - **gprs-negotiated-qos-profile** *boolean*
  - **imei** *boolean*
  - **mac-address** *boolean*
  - **msisdn** *boolean*
  - **nas-identifier** *boolean*
  - **nas-port**
    - **bit-spec** *binary-specification*
  - **nas-port-id**
    - **prefix-string** *string*
    - **suffix** *keyword*
  - **nas-port-type**
    - **type** (*keyword* | *number*)
  - **pppoe-service-name** *boolean*
  - **rat-type** *boolean*
  - **remote-id** *boolean*
  - **sap-session-index** *boolean*
  - **tunnel-server-attrs** *boolean*
  - **uli** *boolean*
  - **wifi-num-attached-ues** *boolean*
  - **wifi-ssid-vlan** *boolean*
  - **xconnect-tunnel-home-address** *boolean*
- **password** *encrypted-leaf*
- **ppp-user-name**
  - **domain-name** *string*
  - **domain-operation** *user-name-format-domain-operation*
- **pppoe-access-method** *keyword*
- **radius-server-policy** *string*
- **re-authentication** *boolean*
- **send-acct-stop-on-fail**
  - **on-accept-failure** *boolean*
  - **on-reject** *boolean*
  - **on-request-failure** *boolean*
- **user-name**
  - **domain-name** *string*
  - **domain-operation** *user-name-format-domain-operation*
  - **format** *keyword*

```
        — gtp-format keyword
        — mac-format mac-specification
    — rip-policy string
        — authentication-key encrypted-leaf
        — authentication-type keyword
        — description string
    — router-advertisement-policy external-named-item
        — force-mcast keyword
        — max-advertisement-interval number
        — min-advertisement-interval number
        — options
            — current-hop-limit number
            — dns
                — include-rdnss boolean
                — rdnss-lifetime (number | keyword)
            — managed-configuration boolean
            — mtu (number | keyword)
            — other-stateful-configuration boolean
            — reachable-time number
            — retransmit-timer number
            — router-lifetime (number | keyword)
        — prefix-options
            — stateful
                — auto-lifetimes boolean
                — on-link boolean
                — preferred-lifetime router-advertisement-prefix-options-lifetime
                — valid-lifetime router-advertisement-prefix-options-lifetime
            — stateless
                — on-link boolean
                — preferred-lifetime router-advertisement-prefix-options-lifetime
                — valid-lifetime router-advertisement-prefix-options-lifetime
    — shcv-policy external-named-item
        — description string
        — layer-3
            — source-ip-origin host-connectivity-verify-source-ip-origin
        — periodic
            — action host-connectivity-verify-action
            — admin-state keyword
            — interval host-connectivity-verify-interval
            — retry-count host-connectivity-verify-retry-count
            — timeout host-connectivity-verify-retry-timeout
        — trigger
            — host-limit-exceeded
                — admin-state keyword
                — retry-count host-connectivity-verify-retry-count
                — timeout host-connectivity-verify-retry-timeout
            — inactivity
                — admin-state keyword
                — retry-count host-connectivity-verify-retry-count
                — timeout host-connectivity-verify-retry-timeout
            — ip-conflict
                — admin-state keyword
                — retry-count host-connectivity-verify-retry-count
                — timeout host-connectivity-verify-retry-timeout
```

- **mac-learning**
  - **admin-state** *keyword*
  - **retry-count** *host-connectivity-verify-retry-count*
  - **timeout** *host-connectivity-verify-retry-timeout*
- **mobility**
  - **admin-state** *keyword*
  - **retry-count** *host-connectivity-verify-retry-count*
  - **timeout** *host-connectivity-verify-retry-timeout*
- **vpls**
  - **source-ip** *ipv4-unicast-address*
  - **source-mac** *mac-address*
- **sla-profile** *external-named-item*
  - **credit-control-policy** *string*
  - **def-instance-sharing** *keyword*
  - **description** *string*
  - **egress**
    - **bonding-selection**
      - **rate-thresholds**
        - **high** *number*
        - **low** *number*
      - **weight**
        - **change** *number*
        - **initial** *number*
    - **ip-filter** *string*
    - **ipv6-filter** *string*
    - **qos**
      - **hs-agg-rate** *number*
      - **qos-marking-from-sap** *boolean*
      - **sap-egress**
        - **overrides**
          - **hs-queue-stat-mode** *keyword*
          - **hs-wrr-group** *string*
            - **hs-class-weight** *number*
            - **rate** (*number* | *keyword*)
          - **policer** *string*
            - **cbs** (*number* | *keyword*)
            - **mbs** (*number* | *keyword*)
            - **packet-byte-offset** *number*
            - **rate**
              - **cir** (*number* | *keyword*)
              - **pir** (*number* | *keyword*)
            - **stat-mode** *subscriber-egress-policer-stat-mode-type*
          - **queue** *string*
            - **avg-frame-overhead** *decimal-number*
            - **cbs** (*number* | *keyword*)
            - **high-prio-only** (*number* | *keyword*)
            - **hs-class-weight** *number*
            - **hs-wred-queue**
              - **policy** *string*
            - **hs-wrr-weight** *number*
            - **mbs** (*number* | *keyword*)
            - **rate**
              - **cir** (*number* | *keyword*)
              - **pir** (*number* | *keyword*)

```
                    — stat-mode keyword
                — policy-name string
                — port-parent-location keyword
            — scheduler-policy
                — overrides
                    — scheduler string
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
                — policy-name string
            — use-ingress-l2tp-dscp boolean
        — report-rate
            — agg-rate
            — policer number
            — pppoe-actual-rate
            — rfc5515-actual-rate
            — scheduler string
    — host-limits
        — ipv4
            — arp sla-profile-host-limit-with-zero
            — dhcp sla-profile-host-limit-with-zero
            — overall sla-profile-host-limit-with-zero
            — ppp sla-profile-host-limit-with-zero
        — ipv6
            — overall sla-profile-host-limit-with-zero
            — pd-ipoe-dhcp sla-profile-host-limit-with-zero
            — pd-overall sla-profile-host-limit-with-zero
            — pd-ppp-dhcp sla-profile-host-limit-with-zero
            — wan-ipoe-dhcp sla-profile-host-limit-with-zero
            — wan-ipoe-slaac sla-profile-host-limit-with-zero
            — wan-overall sla-profile-host-limit-with-zero
            — wan-ppp-dhcp sla-profile-host-limit-with-zero
            — wan-ppp-slaac sla-profile-host-limit-with-zero
        — lac-overall sla-profile-host-limit-with-zero
        — overall sla-profile-host-limit
        — remove-oldest boolean
    — idle-timeout
        — category string
            — action keyword
            — timeout number
        — category-map-name string
    — ingress
        — ip-filter string
        — ipv6-filter string
        — qos
            — sap-ingress
                — overrides
                    — policer string
                        — cbs (number | keyword)
                        — mbs (number | keyword)
                        — packet-byte-offset number
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
```

```
                        — stat-mode subscriber-ingress-policer-stat-mode-type
                    — queue string
                        — cbs (number | keyword)
                        — high-prio-only (number | keyword)
                        — mbs (number | keyword)
                        — rate
                            — cir (number | keyword)
                            — pir (number | keyword)
                        — stat-mode keyword
                — policy-name string
                — queuing-type keyword
            — report-rate
                — agg-rate
                — policer number
                — pppoe-actual-rate
                — rfc5515-actual-rate
                — scheduler string
        — one-time-http-redirection
            — ip-filter string
    — steering-profile string
        — access
            — router-instance string
        — description string
        — network
            — next-hop ipv4-unicast-address
            — router-instance string
    — sub-ident-policy external-named-item
        — description string
        — primary
            — admin-state keyword
            — script-url url
        — secondary
            — admin-state keyword
            — script-url url
        — sla-profile-map
            — entry string
                — sla-profile string
            — use-direct-map-as-default boolean
        — strings-from-option number
        — sub-profile-map
            — entry string
                — sub-profile string
            — use-direct-map-as-default boolean
        — tertiary
            — admin-state keyword
            — script-url url
    — sub-mcac-policy string
        — admin-state keyword
        — bandwidth
            — mandatory (number | keyword)
            — total (number | keyword)
        — description string
    — sub-profile external-named-item
        — accounting-policy string
```

- **accu-stats-policy** *string*
- **ancp**
  - **ancp-policy** *string*
- **collect-stats** *boolean*
- **description** *string*
- **egress**
  - **lag-per-link-hash**
    - **class** *number*
    - **weight** *number*
  - **qos**
    - **agg-rate**
      - **queue-frame-based-accounting** *boolean*
      - **rate** *number*
    - **encap-offset**
      - **type** *keyword*
    - **hs-agg-rate** *number*
    - **hs-low-burst-max-class** *number*
    - **hsmda**
      - **agg-rate** *number*
      - **sap-egress**
        - **overrides**
          - **packet-byte-offset** *number*
          - **queue** *string*
            - **mbs** (*number* | *keyword*)
            - **rate** (*number* | *keyword*)
            - **slope-policy** *string*
            - **wrr-weight** *number*
          - **wrr-policy** *string*
        - **policy-name** *string*
        - **stat-mode** *keyword*
    - **policer-control-policy**
      - **overrides**
        - **root**
          - **max-rate** (*number* | *keyword*)
          - **priority-mbs-thresholds**
            - **min-thresh-separation** (*number* | *keyword*)
            - **priority** *number*
              - **mbs-contribution** (*number* | *keyword*)
      - **policy-name** *string*
    - **scheduler-policy**
      - **overrides**
        - **scheduler** *string*
          - **rate**
            - **cir** (*number* | *keyword*)
            - **pir** (*number* | *keyword*)
      - **policy-name** *string*
- **firewall-policy** *string*
- **host-tracking-policy** *string*
- **hs-sla-mode** *keyword*
- **igmp-policy** *string*
- **ingress**
  - **qos**
    - **hsmda**
      - **sap-ingress**

```
                    — overrides
                        — policer string
                            — stat-mode keyword
                        — queue string
                            — stat-mode keyword
                    — policy-name string
                — policer-control-policy
                    — overrides
                        — root
                            — max-rate (number | keyword)
                            — priority-mbs-thresholds
                                — min-thresh-separation (number | keyword)
                                — priority number
                                    — mbs-contribution (number | keyword)
                    — policy-name string
                — scheduler-policy
                    — overrides
                        — scheduler string
                            — rate
                                — cir (number | keyword)
                                — pir (number | keyword)
                    — policy-name string
        — mld-policy string
        — nat
            — policy string
            — prefix-list string
        — pim-policy string
        — preference number
        — radius-accounting
            — policy string
            — session-optimized-stop boolean
        — secondary-shaper-hashing boolean
        — sla-profile-map
            — entry string
                — sla-profile string
            — use-direct-map-as-default boolean
        — sub-mcac-policy string
        — upnp-policy string
        — volume-stats-type keyword
        — vport-hashing boolean
    — svlan-statistics
        — admin-state keyword
    — vrgw
        — brg-profile string
            — connectivity-verification
                — admin-state keyword
                — count number
                — retry-time number
                — timeout number
            — description string
            — dhcp-pool
                — lease-time number
                — option (number | keyword)
                    — ascii-string string
```

```
                    — duration number
                    — empty
                    — hex-string string
                    — ipv4-address ipv4-address
                    — netbios-node-type keyword
                — standby-ip-lifetime number
                — subnet
                    — end ipv4-unicast-address
                    — prefix ipv4-prefix-with-host-bits
                    — start ipv4-unicast-address
            — hold-time number
            — initial-hold-time number
            — radius-authentication
                — password encrypted-leaf
                — server-policy string
            — radius-proxy-server string name string
            — sla-profile-string string
            — sub-profile-string string
            — uplink-initial-wait number
        — lanext
            — router-target-as-number number
    — wlan-gw
        — virtual-chassis-identifier string
```

37.1 subscriber-mgmt Command Descriptions

subscriber-mgmt

Context	**configure**
Description	Enter the subscriber-mgmt context
Introduced	16.0.R1

accu-stats-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the accu-stats-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt accu-stats-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt accu-stats-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress [type] *type* id *id*

Context	**configure subscriber-mgmt accu-stats-policy** *string*
Description	Enter the egress context
Max. Elements	4
Introduced	16.0.R1

[type] *queue-or-policer*

Context	**configure subscriber-mgmt accu-stats-policy** *string* **egress** *type* **id** *id*
Description	Type
Options	queue, policer
Introduced	16.0.R1
Notes	This element is part of a list key

id *queue-or-policer-id*

Context	**configure subscriber-mgmt accu-stats-policy** *string* **egress** *type* **id** *id*
Description	Queue or policer ID
Range	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

ingress [type] *type* **id** *id*

Context	**configure subscriber-mgmt accu-stats-policy** *string*
Description	Enter the ingress context
Max. Elements	4
Introduced	16.0.R1

[type] *queue-or-policer*

Context	**configure subscriber-mgmt accu-stats-policy** *string* **ingress** *type* **id** *id*
Description	Type
Options	queue, policer
Introduced	16.0.R1
Notes	This element is part of a list key

id *queue-or-policer-id*

Context	**configure subscriber-mgmt accu-stats-policy** *string* **ingress** *type* **id** *id*
Description	Queue or policer ID
Range	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

ancp

Context	**configure subscriber-mgmt**
Description	Enter the ancp context
Introduced	16.0.R1

ancp-policy [name] *string*

Context	**configure subscriber-mgmt ancp**
Description	Enter the ancp-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt ancp ancp-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

egress

Context	**configure subscriber-mgmt ancp ancp-policy** *string*
Description	Enter the egress context
Introduced	16.0.R1

rate-adjustment *number*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **egress**
Description	Rate adjustment
Range	1 to 200
Default	100
Units	percent
Introduced	16.0.R1

rate-modify

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **egress**
Description	Enter the rate-modify context
Introduced	16.0.R1

agg-rate

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **egress rate-modify**
Description	Aggregate rate that applies for modification
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler *string*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **egress rate-modify**
Description	Scheduler to be applied for rate modification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

rate-monitor

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **egress**
Description	Enter the rate-monitor context
Introduced	16.0.R1

alarm *boolean*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **egress rate-monitor**
Description	Generate SNMP notification when monitor event is raised
Default	false
Introduced	16.0.R1

rate *number*

Context **configure subscriber-mgmt ancp ancp-policy** *string* **egress rate-monitor**
Description Rate below which the system generates an event
Range 1 to 4294967295
Units kilobps
Introduced 16.0.R1

rate-reduction *number*

Context **configure subscriber-mgmt ancp ancp-policy** *string* **egress**
Description Rate reduction
Range 1 to 4294967295
Units kilobps
Introduced 16.0.R1

ingress

Context **configure subscriber-mgmt ancp ancp-policy** *string*
Description Enter the ingress context
Introduced 16.0.R1

rate-adjustment *number*

Context **configure subscriber-mgmt ancp ancp-policy** *string* **ingress**
Description Rate adjustment
Range 1 to 200
Default 100
Units percent
Introduced 16.0.R1

rate-modify

Context **configure subscriber-mgmt ancp ancp-policy** *string* **ingress**
Description Enter the rate-modify context
Introduced 16.0.R1

scheduler *string*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **ingress rate-modify**
Description	Scheduler to be applied for rate modification
String Length	1 to 32
Introduced	16.0.R1

rate-monitor

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **ingress**
Description	Enter the rate-monitor context
Introduced	16.0.R1

alarm *boolean*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **ingress rate-monitor**
Description	Generate SNMP notification when monitor event is raised
Default	false
Introduced	16.0.R1

rate *number*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **ingress rate-monitor**
Description	Rate below which the system generates an event
Range	1 to 4294967295
Units	kilobps
Introduced	16.0.R1

rate-reduction *number*

Context	**configure subscriber-mgmt ancp ancp-policy** *string* **ingress**
Description	Rate reduction
Range	1 to 4294967295
Units	kilobps
Introduced	16.0.R1

port-down

Context **configure subscriber-mgmt ancp ancp-policy** *string*

Description Enter the port-down context

Introduced 16.0.R1

suspend-shcv

Context **configure subscriber-mgmt ancp ancp-policy** *string* **port-down**

Description Enter the suspend-shcv context

Introduced 16.0.R1

alarm *boolean*

Context **configure subscriber-mgmt ancp ancp-policy** *string* **port-down suspend-shcv**

Description Enables/disables whether the system should generate a notification before suspending SHCV.

Default false

Introduced 16.0.R1

hold-time *number*

Context **configure subscriber-mgmt ancp ancp-policy** *string* **port-down suspend-shcv**

Description Configures how long SHCV is suspended.

Range 1 to 7200

Units seconds

Introduced 16.0.R1

ancp-static-map

Context **configure subscriber-mgmt ancp**

Description Enter the ancp-static-map context

Introduced 16.0.R1

multi-service-site-entry [ancp-string] *ancp-string* **customer-name** *string* **customer-site-name** *string*

Context	**configure subscriber-mgmt ancp ancp-static-map**
Description	Enter the multi-service-site-entry context
Introduced	16.0.R1

[ancp-string] *ancp-string*

Context	**configure subscriber-mgmt ancp ancp-static-map multi-service-site-entry** *ancp-string* **customer-name** *string* **customer-site-name** *string*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

customer-name *string*

Context	**configure subscriber-mgmt ancp ancp-static-map multi-service-site-entry** *ancp-string* **customer-name** *string* **customer-site-name** *string*
Description	Service customer identifier
Reference	configure **service customer** *customer-name*
Introduced	16.0.R1
Notes	This element is part of a list key

customer-site-name *string*

Context	**configure subscriber-mgmt ancp ancp-static-map multi-service-site-entry** *ancp-string* **customer-name** *string* **customer-site-name** *string*
Description	Service customer multi-service site name
Reference	configure **service customer** *customer-name* **multi-service-site** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

ancp-policy *string*

Context	**configure subscriber-mgmt ancp ancp-static-map multi-service-site-entry** *ancp-string* **customer-name** *string* **customer-site-name** *string*
Description	The ANCP policy.
Reference	configure **subscriber-mgmt ancp ancp-policy** *string*
Introduced	16.0.R1
Notes	This element is mandatory

sap-entry [ancp-string] *ancp-string* **sap-id** *sap*

Context	**configure subscriber-mgmt ancp ancp-static-map**
Description	Enter the sap-entry context
Introduced	16.0.R1

[ancp-string] *ancp-string*

Context	**configure subscriber-mgmt ancp ancp-static-map sap-entry** *ancp-string* **sap-id** *sap*
Description	ANCP string
String Length	1 to 63
Introduced	16.0.R1
Notes	This element is part of a list key

sap-id *sap*

Context	**configure subscriber-mgmt ancp ancp-static-map sap-entry** *ancp-string* **sap-id** *sap*
Description	SAP
Introduced	16.0.R1
Notes	This element is part of a list key

ancp-policy *string*

Context	**configure subscriber-mgmt ancp ancp-static-map sap-entry** *ancp-string* **sap-id** *sap*
Description	ANCP policy name
Reference	configure **subscriber-mgmt ancp ancp-policy** *string*
Introduced	16.0.R1
Notes	This element is mandatory

auto-sub-id

Context	**configure subscriber-mgmt**
Description	Enter the auto-sub-id context
Introduced	16.0.R1

implicit-generation *boolean*

Context	**configure subscriber-mgmt auto-sub-id**
Description	Generate implicitly the subscriber identifier if none is provided
Default	true
Introduced	16.0.R1

ipoe-key *sub-id-key-ipoe*

Context	**configure subscriber-mgmt auto-sub-id**
Description	Auto-generated subscriber identifier key1 for IPoE hosts
Options	mac, sap-id, circuit-id, remote-id, dual-stack-remote-id
Max. Elements	4
Introduced	16.0.R1
Notes	This element is ordered by user

ppp-key *sub-id-key-ppp*

Context	**configure subscriber-mgmt auto-sub-id**
Description	Auto-generated subscriber identifier key1 for PPP hosts
Options	mac, sap-id, circuit-id, remote-id, session-id
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

bgp-peering-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the bgp-peering-policy context
Max. Elements	255
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

advertise-inactive *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Advertise inactive BGP routes to other BGP peers
Introduced	16.0.R1

aggregator-id-zero *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Set router ID in aggregator path attribute to zero when BGP aggregates routes
Introduced	16.0.R1

as-override *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Replace all instances of the peer's AS number with the local AS number in a BGP route's AS_PATH
Introduced	16.0.R1

asn-4-byte *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Enable/disable the advertisement of 4-byte ASN capability.
Introduced	16.0.R3

authentication-key *encrypted-leaf*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	BGP authentication key for all peers
String Length	1 to 370
Introduced	16.0.R1

authentication-keychain *string*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Specify the TCP authentication keychain to use for the session.
Reference	configure **system security keychains keychain** *string*
Introduced	16.0.R3

client-reflect *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Enable/disable the reflection of routes by the route reflector.
Introduced	16.0.R3

cluster *ipv4-address*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Cluster ID for route reflector server
Introduced	16.0.R1

connect-retry *number*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	BGP connect retry timer value
Range	1 to 65535
Units	seconds
Introduced	16.0.R1

damping *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Use BGP route damping for learned routes defined within the route policy
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

export *string*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Export route policies used to control routes advertised to BGP neighbors
Reference	configure **policy-options policy-statement** *string*
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

fast-external-failover *boolean*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Enable/disable BGP fast external failover.
Introduced	16.0.R3

hold-time *number*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	BGP hold time before closing connection
Range	0 | 3 to 65535
Units	seconds
Introduced	16.0.R1

import *string*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Import route policies used to control routes advertised to BGP neighbors
Reference	configure **policy-options policy-statement** *string*
Max. Elements	15
Introduced	16.0.R1
Notes	This element is ordered by user

keepalive *number*

Context **configure subscriber-mgmt bgp-peering-policy** *string*
Description BGP keepalive timer
Range 0 to 21845
Units seconds
Introduced 16.0.R1

local-address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context **configure subscriber-mgmt bgp-peering-policy** *string*
Description Local IP address used by group or neighbor when communicating with BGP peers
Introduced 16.0.R1

local-as

Context **configure subscriber-mgmt bgp-peering-policy** *string*
Description Enter the local-as context
Introduced 16.0.R1

as-number *number*

Context **configure subscriber-mgmt bgp-peering-policy** *string* **local-as**
Description AS number to be advertised to peer
Range 1 to 4294967295
Introduced 16.0.R1

private *boolean*

Context **configure subscriber-mgmt bgp-peering-policy** *string* **local-as**
Description Hide local AS number in paths learned from peering
Default false
Introduced 16.0.R1

local-preference *number*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Local preference attribute for incoming routes if not specified
Range	0 to 4294967295
Introduced	16.0.R1

loop-detect *keyword*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Loop detection strategy in AS path
Options	drop-peer, ignore-loop, off, discard-route
Introduced	16.0.R1

med-out (*number* | *keyword*)

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Multi-Exit Discriminator (MED) advertising
Options	igp-cost
Introduced	16.0.R1

min-route-advertisement *number*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	Minimum interval between successive updates of prefix toward peer
Range	1 to 255
Units	seconds
Introduced	16.0.R1

multihop *number*

Context	**configure subscriber-mgmt bgp-peering-policy** *string*
Description	TTL value entered in IP header of packets sent to peer
Range	1 to 255
Introduced	16.0.R1

next-hop-self *boolean*

Context **configure subscriber-mgmt bgp-peering-policy** *string*

Description Advertise routes to peer using next hop path attribute set to itself

Introduced 16.0.R1

passive *boolean*

Context **configure subscriber-mgmt bgp-peering-policy** *string*

Description Wait passively for BGP peer to connect

Introduced 16.0.R1

peer-as *number*

Context **configure subscriber-mgmt bgp-peering-policy** *string*

Description AS number for remote peer

Range 1 to 4294967295

Introduced 16.0.R1

preference *number*

Context **configure subscriber-mgmt bgp-peering-policy** *string*

Description Route preference for routes learned from all configured peers

Range 1 to 255

Introduced 16.0.R1

prefix-limit *number*

Context **configure subscriber-mgmt bgp-peering-policy** *string*

Description Maximum number of routes that can be learned from peer

Range 1 to 4294967295

Introduced 16.0.R1

remove-private

Context **configure subscriber-mgmt bgp-peering-policy** *string*

Description Enter the remove-private context

Introduced 16.0.R1

limited *boolean*

Context **configure subscriber-mgmt bgp-peering-policy** *string* **remove-private**
Description Remove private AS numbers up to first public ASN encountered
Default false
Introduced 16.0.R1

send-communities

Context **configure subscriber-mgmt bgp-peering-policy** *string*
Description Enter the send-communities context
Introduced 16.0.R3

extended *boolean*

Context **configure subscriber-mgmt bgp-peering-policy** *string* **send-communities**
Description Send the community attribute to the peer for external communities
Introduced 16.0.R3

standard *boolean*

Context **configure subscriber-mgmt bgp-peering-policy** *string* **send-communities**
Description Send the community attribute to the peer for non-external communities
Introduced 16.0.R3

ttl-security *number*

Context **configure subscriber-mgmt bgp-peering-policy** *string*
Description Minimum TTL value for incoming BGP packet
Range 1 to 255
Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt bgp-peering-policy** *string*
Description Peer type
Options no-type, internal, external
Introduced 16.0.R1

category-map [category-map-name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the category-map context
Max. Elements	255
Introduced	16.0.R1

[category-map-name] *string*

Context	**configure subscriber-mgmt category-map** *string*
Description	Category map name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

activity-threshold *activity-threshold*

Context	**configure subscriber-mgmt category-map** *string*
Description	Threshold that is applied to determine whether an activity is ongoing
Range	1 to 100000000
Introduced	16.0.R1

category [category-name] *string*

Context	**configure subscriber-mgmt category-map** *string*
Description	Enter the category context
Max. Elements	16
Introduced	16.0.R1

[category-name] *string*

Context	**configure subscriber-mgmt category-map** *string* **category** *string*
Description	Category name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

credit-type-override *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string*
Description Credit type override in category map
Options volume, time
Introduced 16.0.R1

default-credit

Context **configure subscriber-mgmt category-map** *string* **category** *string*
Description Enter the default-credit context
Introduced 16.0.R1

time *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **default-credit**
Description Default time credit
Range 1 to 4294967295
Units seconds
Introduced 16.0.R1
Notes This element is part of a choice

volume

Context **configure subscriber-mgmt category-map** *string* **category** *string* **default-credit**
Description Enter the **volume** context
Introduced 16.0.R1

unit *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **default-credit volume**
Description Unit for the default volume credit
Default bytes
Options bytes, kilobytes, megabytes, gigabytes
Introduced 16.0.R1
Notes This element is part of a choice

value *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **default-credit volume**
Description	Value for the default volume credit
Range	1 to 4294967295
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

description *string*

Context	**configure subscriber-mgmt category-map** *string* **category** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress

Context	**configure subscriber-mgmt category-map** *string* **category** *string*
Description	Enter the egress context
Introduced	16.0.R1

policer *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **egress**
Description	Egress policers for this category
Range	1 to 63
Max. Elements	63
Introduced	16.0.R1

queue *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **egress**
Description	Egress queues for this category
Range	1 to 8
Max. Elements	8
Introduced	16.0.R1

exhausted-credit-service-level

Context	**configure subscriber-mgmt category-map** *string* **category** *string*
Description	Enter the exhausted-credit-service-level context
Introduced	16.0.R1

egress

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level**
Description	Enter the egress context
Introduced	16.0.R1

ip-filter

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress**
Description	Enter the ip-filter context
Introduced	16.0.R1

entry [id] *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter**
Description	Enter the entry context
Max. Elements	10
Introduced	16.0.R1

[id] *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number*
Description	IP Filter entry ID
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number*

Description Enter the action context

Introduced 16.0.R1

drop

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **action**

Description Packets matching the filter entry are dropped

Introduced 16.0.R1

Notes This element is part of a choice

forward

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **action**

Description Packets matching the filter entry are forwarded

Introduced 16.0.R1

Notes This element is part of a choice

http-redirect

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **action**

Description Enter the **http-redirect** context

Introduced 16.0.R1

allow-override *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **action http-redirect**

Description Allow URL to be overridden by RADIUS/Diameter

Default false

Introduced 16.0.R1

Notes This element is part of a choice

url *http-redirect-url*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **action http-redirect**
Description	URL that is used to redirect the packets
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

description *string*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**
Description	DSCP to match
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R1

dst-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match dst-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match dst-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match dst-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match dst-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match dst-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

fragment *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Fragmentation to match

Options false, true

Introduced 16.0.R1

icmp

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Enter the icmp context

Introduced 16.0.R1

code *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match icmp**

Description ICMP code to match

Range 0 to 255

Introduced 16.0.R1

type *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match icmp**

Description ICMP type to match

Range 0 to 255

Introduced 16.0.R1

ip-option

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Enter the ip-option context

Introduced 16.0.R1

mask *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match ip-option**

Description Mask with which the first IP option of IP header is ANDed before comparing

Default 0

Introduced 16.0.R1

type *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match ip-option**

Description First IP option value for the IP header

Default 0

Introduced 16.0.R1

multiple-option *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Match the multiple option

Introduced 16.0.R1

option-present *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Match the present option

Introduced 16.0.R1

protocol (*number* | *keyword*)

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description IPv4 protocol to match

Introduced 16.0.R1

src-ip *ipv4-address-and-mask*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Source IP address and mask to match

Introduced 16.0.R1

src-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match src-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match src-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match src-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match src-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match src-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

tcp-flags

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match**

Description Enter the tcp-flags context

Introduced 16.0.R1

ack *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match tcp-flags**

Description Check for ACK bit

Introduced 16.0.R1

syn *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ip-filter entry** *number* **match tcp-flags**

Description Check for SYN bit

Introduced 16.0.R1

ipv6-filter

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress**

Description Enter the ipv6-filter context

Introduced 16.0.R1

entry [id] *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter**

Description Enter the entry context

Max. Elements 10

Introduced 16.0.R1

[id] *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number*

Description IP Filter entry ID

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a list key

action

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number*

Description Enter the action context

Introduced 16.0.R1

drop

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **action**

Description Packets matching the filter entry are dropped

Introduced 16.0.R1

Notes This element is part of a choice

forward

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **action**

Description Packets matching the filter entry are forwarded

Introduced 16.0.R1

Notes This element is part of a choice

description *string*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description DSCP to match

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R1

dst-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match dst-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match dst-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match dst-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match dst-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match dst-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

icmp

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description Enter the icmp context

Introduced 16.0.R1

code *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match icmp**

Description ICMP code to match

Range 0 to 255

Introduced 16.0.R1

type *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match icmp**

Description ICMP type to match

Range 0 to 255

Introduced 16.0.R1

next-header (*number* | *keyword*)

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description IPv6 next header to match

Introduced 16.0.R1

src-ip *ipv6-address-and-mask*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description Source IP address and mask to match

Default 0::0 0::0

Introduced 16.0.R1

src-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match src-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match src-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match src-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match src-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match src-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

tcp-flags

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match**

Description Enter the tcp-flags context

Introduced 16.0.R1

ack *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match tcp-flags**

Description Check for ACK bit

Introduced 16.0.R1

syn *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level egress ipv6-filter entry** *number* **match tcp-flags**

Description Check for SYN bit

Introduced 16.0.R1

ingress

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level**

Description Enter the ingress context

Introduced 16.0.R1

ip-filter

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress**

Description Enter the ip-filter context

Introduced 16.0.R1

entry [id] *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter**

Description Enter the entry context

Max. Elements 10

Introduced 16.0.R1

[id] *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number*

Description IP Filter entry ID

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a list key

action

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number*

Description Enter the action context

Introduced 16.0.R1

drop

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **action**

Description Packets matching the filter entry are dropped

Introduced 16.0.R1

Notes This element is part of a choice

forward

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **action**

Description Packets matching the filter entry are forwarded

Introduced 16.0.R1

Notes This element is part of a choice

http-redirect

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **action**

Description Enter the **http-redirect** context

Introduced 16.0.R1

allow-override *boolean*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **action http-redirect**
Description	Allow URL to be overridden by RADIUS/Diameter
Default	false
Introduced	16.0.R1
Notes	This element is part of a choice

url *http-redirect-url*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **action http-redirect**
Description	URL that is used to redirect the packets
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

description *string*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description DSCP to match

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R1

dst-ip *ipv4-address-and-mask*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Destination IP address and mask to match

Introduced 16.0.R1

dst-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match dst-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match dst-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match dst-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match dst-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match dst-port range**
Description	Lower bound of the range
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

fragment *keyword*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**
Description	Fragmentation to match
Options	false, true
Introduced	16.0.R1

icmp

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**
Description	Enter the icmp context
Introduced	16.0.R1

code *number*

Context	**configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match icmp**
Description	ICMP code to match
Range	0 to 255
Introduced	16.0.R1

type *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match icmp**

Description ICMP type to match

Range 0 to 255

Introduced 16.0.R1

ip-option

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Enter the ip-option context

Introduced 16.0.R1

mask *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match ip-option**

Description Mask with which the first IP option of IP header is ANDed before comparing

Default 0

Introduced 16.0.R1

type *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match ip-option**

Description First IP option value for the IP header

Default 0

Introduced 16.0.R1

multiple-option *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Match the multiple option

Introduced 16.0.R1

option-present *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Match the present option

Introduced 16.0.R1

protocol (*number* | *keyword*)

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description IPv4 protocol to match

Introduced 16.0.R1

src-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match src-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match src-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match src-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match src-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match src-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

tcp-flags

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match**

Description Enter the tcp-flags context

Introduced 16.0.R1

ack *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match tcp-flags**

Description Check for ACK bit

Introduced 16.0.R1

syn *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ip-filter entry** *number* **match tcp-flags**

Description Check for SYN bit

Introduced 16.0.R1

ipv6-filter

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress**

Description Enter the ipv6-filter context

Introduced 16.0.R1

entry [id] *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter**

Description Enter the entry context

Max. Elements 10

Introduced 16.0.R1

[id] *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number*

Description IP Filter entry ID

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a list key

action

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number*

Description Enter the action context

Introduced 16.0.R1

drop

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **action**

Description Packets matching the filter entry are dropped

Introduced 16.0.R1

Notes This element is part of a choice

forward

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **action**

Description Packets matching the filter entry are forwarded

Introduced 16.0.R1

Notes This element is part of a choice

description *string*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description DSCP to match

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R1

dst-ip *ipv6-address-and-mask*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description Destination IP address and mask to match

Default 0::0 0::0

Introduced 16.0.R1

dst-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match dst-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match dst-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match dst-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match dst-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match dst-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match dst-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

icmp

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description Enter the icmp context

Introduced 16.0.R1

code *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match icmp**

Description ICMP code to match

Range 0 to 255

Introduced 16.0.R1

type *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match icmp**

Description ICMP type to match

Range 0 to 255

Introduced 16.0.R1

next-header (*number* | *keyword*)

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description IPv6 next header to match

Introduced 16.0.R1

src-port

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description Enter the src-port context

Introduced 16.0.R1

eq *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match src-port**

Description Port equal

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match src-port**

Description Port greater than

Range 0 to 65534

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match src-port**

Description Port less than

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match src-port**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match src-port range**

Description Upper bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match src-port range**

Description Lower bound of the range

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

tcp-flags

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match**

Description Enter the tcp-flags context

Introduced 16.0.R1

ack *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match tcp-flags**

Description Check for ACK bit

Introduced 16.0.R1

syn *boolean*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level ingress ipv6-filter entry** *number* **match tcp-flags**

Description Check for SYN bit

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt category-map** *string* **category** *string* **exhausted-credit-service-level**

Description PIR

Introduced 16.0.R1

ingress

Context **configure subscriber-mgmt category-map** *string* **category** *string*

Description Enter the ingress context

Introduced 16.0.R1

policer *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **ingress**
Description Ingress policers used in this category
Range 1 to 63
Max. Elements 63
Introduced 16.0.R1

queue *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string* **ingress**
Description Ingress queues used in this category
Range 1 to 32
Max. Elements 32
Introduced 16.0.R1

out-of-credit-action-override *keyword*

Context **configure subscriber-mgmt category-map** *string* **category** *string*
Description Out of credit action that is overriden in category map
Options continue, disconnect-host, block-category, change-service-level
Introduced 16.0.R1

rating-group *number*

Context **configure subscriber-mgmt category-map** *string* **category** *string*
Description Rating group for this category
Range 0 to 4294967295
Introduced 16.0.R1

credit-exhaust-threshold *number*

Context **configure subscriber-mgmt category-map** *string*
Description Percentage for credit exhaust threshold
Range 50 to 100
Default 100
Units percent
Introduced 16.0.R1

credit-type *keyword*

Context	**configure subscriber-mgmt category-map** *string*
Description	Credit type
Default	volume
Options	volume, time
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt category-map** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

gx-session-level-usage *boolean*

Context	**configure subscriber-mgmt category-map** *string*
Description	Allow Gx session level Usage Monitoring
Default	false
Introduced	16.0.R1

credit-control-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the credit-control-policy context
Max. Elements	255
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt credit-control-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

default-category-map *string*

Context	**configure subscriber-mgmt credit-control-policy** *string*
Description	Default category map for this policy
Reference	configure **subscriber-mgmt category-map** *string*
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt credit-control-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

error-handling-action *keyword*

Context	**configure subscriber-mgmt credit-control-policy** *string*
Description	Action when an error occurs in the determination of Credit Control
Default	continue
Options	continue, block
Introduced	16.0.R1

out-of-credit-action *keyword*

Context	**configure subscriber-mgmt credit-control-policy** *string*
Description	Action when out of credit is reached
Default	continue
Options	continue, disconnect-host, block-category, change-service-level
Introduced	16.0.R1

server

Context	**configure subscriber-mgmt credit-control-policy** *string*
Description	Enter the server context
Introduced	16.0.R1

diameter *string*

Context	**configure subscriber-mgmt credit-control-policy** *string* **server**
Description	Diameter policy name that defines the Diameter peers to be used
Reference	configure **subscriber-mgmt diameter-gy-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

radius

Context	**configure subscriber-mgmt credit-control-policy** *string* **server**
Description	Use RADIUS authentication servers defined in the RADIUS authentication policy in group interface
Introduced	16.0.R1
Notes	This element is part of a choice

diameter-gx-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the diameter-gx-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Diameter application policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

gx

Context **configure subscriber-mgmt diameter-gx-policy** *string*

Description Enter the gx context

Introduced 16.0.R1

avp-subscription-id

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx**

Description Enter the avp-subscription-id context

Introduced 16.0.R1

origin *keyword*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx avp-subscription-id**

Description Format of the Subscription-Id-Data AVP

Default subscriber-id

Options subscriber-id, circuit-id, imsi, msisdn, imei, dual-stack-remote-id, mac, username, nas-port-id

Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx avp-subscription-id**

Description Format of the Subscription-Id-Type AVP

Default private

Options e164, imsi, nai, private

Introduced 16.0.R1

ccrt-replay

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx**

Description Enter the ccrt-replay context

Introduced 16.0.R1

interval *number*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx ccrt-replay**
Description	Minimum interval between two consecutive CCR-t replay attempts in a session
Range	60 to 86400
Default	3600
Introduced	16.0.R1

max-lifetime *number*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx ccrt-replay**
Description	The maximum time in hours for CCR-t replay attempts for a sessions.
Range	1 to 24
Default	24
Units	hours
Introduced	16.0.R4

include-avp

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx**
Description	Enter the include-avp context
Introduced	16.0.R1

an-gw-address *boolean*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description	Include the IP address of this gateway
Default	false
Introduced	16.0.R1

apn-ambr *boolean*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description	Include the APN aggregate maximum bitrate
Default	false
Introduced	16.0.R1

called-station-id *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description Include the called station ID
Default false
Introduced 16.0.R1

calling-station-id

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description Enter the calling-station-id context
Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp calling-station-id**
Description Specifies the calling-station-id type.
Default sap-string
Options sap-string, mac, sap-id, remote-id, llid
Introduced 16.0.R1

ip-can-type *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description Include the IP CAN type
Default false
Introduced 16.0.R1

logical-access-id *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description Include the logical access id
Default false
Introduced 16.0.R1

nas-port

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description Enter the nas-port context
Introduced 16.0.R1

bit-spec *binary-specification*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port**
Description NAS-Port AVP format
String Length 1 to 255
Introduced 16.0.R1
Notes This element is mandatory

nas-port-id

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**
Description Enter the nas-port-id context
Introduced 16.0.R1

prefix-string *string*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-id**
Description Prefix string for NAS-Port-Id AVP
String Length 1 to 8
Introduced 16.0.R1

suffix

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-id**
Description Enter the suffix context
Introduced 16.0.R1

circuit-id

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-id suffix**

Description Add Circuit ID as suffix

Introduced 16.0.R1

Notes This element is part of a choice

not-included

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-id suffix**

Description Do not add a suffix

Introduced 16.0.R1

Notes This element is part of a choice

remote-id

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-id suffix**

Description Add Remote ID as suffix

Introduced 16.0.R1

Notes This element is part of a choice

user-string *string*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-id suffix**

Description Add a user configurable string as suffix

String Length 1 to 64

Introduced 16.0.R1

Notes This element is part of a choice

nas-port-type

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Enter the nas-port-type context

Introduced 16.0.R1

type *number*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp nas-port-type**

Description NAS-Port-Type AVP value

Range 0 to 255

Introduced 16.0.R1

pdn-connection-id *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the PDN connection id

Default false

Introduced 16.0.R1

physical-access-id *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the physical access ID

Default false

Introduced 16.0.R1

rai *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the routing area identity

Default false

Introduced 16.0.R1

rat-type *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the RAT type

Default false

Introduced 16.0.R1

sgsn-mcc-mnc *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the SGSN MCC and MNC.

Default false

Introduced 16.0.R1

supported-features *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the supported features

Default false

Introduced 16.0.R1

user-equipment-info

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Enter the user-equipment-info context

Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp user-equipment-info**

Description Information to include in User-Equipment-Info attribute in CCR messages

Default mac

Options imeisv, mac, eui64, modified-eui64

Introduced 16.0.R1

user-location-info *boolean*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx include-avp**

Description Include the user location info.

Default false

Introduced 16.0.R1

mac-format *mac-specification*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx**
Description	MAC address format
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

report-ip-address-event *boolean*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx**
Description	Enable CCR-u upon IP address allocation events for dual stack subscribers
Default	true
Introduced	16.0.R1

three-gpp-qos-mapping

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx**
Description	Enter the three-gpp-qos-mapping context
Introduced	16.0.R1

apn-ambr-dl

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping**
Description	Enter the apn-ambr-dl context
Introduced	16.0.R1

aggregate-rate

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**
Description	map apn-ambr-dl to an aggregate rate override.
Introduced	16.0.R1
Notes	This element is part of a choice

arbiter *string*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**
Description	Arbiter name to be overridden
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

hs-sla-agg-rate

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**
Description	map apn-ambr-dl to an hs aggregate rate override.
Introduced	16.0.R1
Notes	This element is part of a choice

ignore-override

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**
Description	no override on apn-ambr-dl
Introduced	16.0.R1
Notes	This element is part of a choice

policer *number*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**
Description	policerId used for the apn-ambr-dl qos override.
Range	1 to 63
Introduced	16.0.R1
Notes	This element is part of a choice

queue *number*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**

Description queueId used for the apn-ambr-dl qos override.

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a choice

scheduler *string*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-dl**

Description scheduler name used for the apn-ambr-dl qos override

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

apn-ambr-ul

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping**

Description Enter the apn-ambr-ul context

Introduced 16.0.R1

arbiter *string*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-ul**

Description Arbiter name to be overridden

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

ignore-override

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-ul**

Description no override on apn-ambr-ul

Introduced 16.0.R1

Notes This element is part of a choice

policer *number*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-ul**

Description policerId used for the apn-ambr-ul qos override.

Range 1 to 63

Introduced 16.0.R1

Notes This element is part of a choice

queue *number*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-ul**

Description queueId used for the apn-ambr-ul qos override.

Range 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

scheduler *string*

Context **configure subscriber-mgmt diameter-gx-policy** *string* **gx three-gpp-qos-mapping apn-ambr-ul**

Description scheduler name used for the apn-ambr-ul qos override

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

node

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Enter the **node** context
Introduced	16.0.R4

destination-realm *string*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **node**
Description	Destination-Realm to where the diameter application messages should be delivered.
String Length	1 to 80
Introduced	16.0.R4
Notes	This element is part of a choice

origin-host *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **node**
Description	Origin-host that identifies the diameter-node that is to be used for transmission
Reference	configure **aaa diameter node** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

on-failure

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Enter the on-failure context
Introduced	16.0.R1

failover *boolean*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **on-failure**
Description	Session peer failover
Default	true
Introduced	16.0.R1

handling *keyword*

Context	**configure subscriber-mgmt diameter-gx-policy** *string* **on-failure**
Description	Session peer failure handling
Default	terminate
Options	terminate, continue, retry-and-terminate
Introduced	16.0.R1

peer-policy *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Configure the policy for the Diameter peers.
Reference	configure **aaa diameter peer-policy** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

statistics

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Enter the statistics context
Introduced	16.0.R4

tx-timer *number*

Context	**configure subscriber-mgmt diameter-gx-policy** *string*
Description	Maximum wait time for a pending session request
Range	10 to 1000
Default	10
Units	seconds
Introduced	16.0.R1

diameter-gy-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the diameter-gy-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Diameter application policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

gy

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Enter the gy context
Introduced	16.0.R1

avp-subscription-id

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy**
Description	Enter the avp-subscription-id context
Introduced	16.0.R1

origin *keyword*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy avp-subscription-id**
Description Origin for the Subscription-Id-Data AVP
Default subscriber-id
Options subscriber-id, circuit-id, imsi, msisdn, imei, dual-stack-remote-id, mac, username, nas-port-id
Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy avp-subscription-id**
Description Origin for the Subscription-Id-Type AVP
Default private
Options e164, imsi, nai, private
Introduced 16.0.R1

ccrt-replay

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy**
Description Enter the ccrt-replay context
Introduced 16.0.R1

interval *number*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy ccrt-replay**
Description The interval between two consecutive CCR-t replay attempts for a sessions.
Range 60 to 86400
Default 3600
Introduced 16.0.R1

max-lifetime *number*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy ccrt-replay**
Description The maximum time in hours for CCR-t replay attempts for a sessions.
Range 1 to 24
Default 24
Units hours
Introduced 16.0.R1

extended-failure-handling

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy**

Description Enter the extended-failure-handling context

Introduced 16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling**

Description Administrative state of the extended failure handling

Default disable

Options enable, disable

Introduced 16.0.R1

interim-credit

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling**

Description Enter the interim-credit context

Introduced 16.0.R1

max-attempts (*number* | *keyword*)

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling interim-credit**

Description Attempts to retry setting up a session to the OCS

Range 1 to 4294967295

Default 10

Options infinite

Introduced 16.0.R1

reporting *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling interim-credit**

Description Report interim Credit

Default false

Introduced 16.0.R1

validity-time (*number* | *keyword*)

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling interim-credit**
Description	Validity time for interim credit
Range	1 to 4294967295
Default	1800
Units	seconds
Options	none
Introduced	16.0.R1

volume

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling interim-credit**
Description	Enter the volume context
Introduced	16.0.R1

credits *number*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling interim-credit volume**
Description	Default volume credit value
Range	1 to 4294967295
Default	500
Introduced	16.0.R1

units *keyword*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling interim-credit volume**
Description	Default volume credit units
Default	megabytes
Options	bytes, kilobytes, megabytes, gigabytes
Introduced	16.0.R1

new-session-id *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy extended-failure-handling**

Description Enable/disable using a new session id for CCR-i messages.

Default false

Introduced 16.0.R1

include-avp

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy**

Description Enter the include-avp context

Introduced 16.0.R1

aaa-user-name *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description Include the User-Name.

Default false

Introduced 16.0.R1

address-avp *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description DCCA AVPs that contain the host address or prefix

Default true

Introduced 16.0.R1

called-station-id

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description Enter the called-station-id context

Introduced 16.0.R1

id *string*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp called-station-id**
Description	MAC address of AP in WiFi
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is mandatory

charging-rule-base-name

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	Enter the charging-rule-base-name context
Introduced	16.0.R1

category-map

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp charging-rule-base-name**
Description	Use the category map name in use for this session
Introduced	16.0.R1
Notes	This element is part of a choice

not-included

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp charging-rule-base-name**
Description	Do not include Charging-Rule-Base-Name AVP in Diameter DCCA CCR messages
Introduced	16.0.R1
Notes	This element is part of a choice

user-string *string*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp charging-rule-base-name**
Description	String for charging rule base name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

ggsn-address

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description Enter the ggsn-address context
Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp ggsn-address**
Description Address type of GGSN address AVP
Options ipv4, ipv6
Introduced 16.0.R1
Notes This element is mandatory

pdp-context-type *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description Include the DCCA PDP-Context-Type AVP Parameter
Default true
Introduced 16.0.R1

ps-information *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description Enable reporting of AVPs in grouped PS-Information AVP
Default false
Introduced 16.0.R1

service-context-id

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description Enter the service-context-id context
Introduced 16.0.R1

id *string*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp service-context-id**

Description Value for the Service-Context-Id AVP

String Length 1 to 32

Introduced 16.0.R1

Notes This element is mandatory

three-gpp-charging-characteristics *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description DCCA 3GPP charging characteristics AVP parameter

Default true

Introduced 16.0.R1

three-gpp-charging-id *keyword*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description DCCA 3GPP charging ID AVP parameter

Default auto

Options false, auto, esm-info, id

Introduced 16.0.R1

three-gpp-ggsn-ipv4-address *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description Include the 3GPP-GGSN-Address.

Default true

Introduced 16.0.R4

three-gpp-ggsn-ipv6-address *boolean*

Context **configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**

Description Include the 3GPP-GGSN-Ipv6 address

Default false

Introduced 16.0.R1

three-gpp-gprs-negotiated-qos-profile *boolean*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	Include the DCCA 3GPP GPRS-negotiated QoS profile AVP parameter
Default	true
Introduced	16.0.R1

three-gpp-imsi *keyword*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	Origin of the information to send in the IMSI AVP
Default	subscriber-id
Options	false, subscriber-id, circuit-id, imsi
Introduced	16.0.R1

three-gpp-nsapi *boolean*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	Include the 3GPP-NSAPI
Default	true
Introduced	16.0.R1

three-gpp-rat-type

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	Enter the three-gpp-rat-type context
Introduced	16.0.R1

type *number*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp three-gpp-rat-type**
Description	Value for 3GPP-RAT-Type AVP
Range	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

three-gpp-selection-mode *boolean*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	DCCA 3GPP selection mode AVP parameter
Default	true
Introduced	16.0.R1

three-gpp-session-stop-indicator *boolean*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	DCCA 3GPP session stop indicator AVP parameter
Default	true
Introduced	16.0.R1

three-gpp-user-location-info *boolean*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	DCCA 3GPP session stop indicator AVP parameter
Default	false
Introduced	16.0.R1

user-equipment-info-type

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp**
Description	Enter the user-equipment-info-type context
Introduced	16.0.R1

type *keyword*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy include-avp user-equipment-info-type**
Description	Information to include in User-Equipment-Info attribute in CCR messages
Options	imeisv
Introduced	16.0.R1
Notes	This element is mandatory

mac-format *mac-specification*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy**
Description	MAC address format
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

out-of-credit-reporting *keyword*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy**
Description	Reporting reason when the final granted units are consumed
Default	final
Options	final, quota-exhausted
Introduced	16.0.R1

vendor-support *diam-vendor-support*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **gy**
Description	Vendor support type announced in capability exchange
Default	three-gpp
Options	vodafone, three-gpp
Introduced	16.0.R1

node

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Enter the **node** context
Introduced	16.0.R4

destination-realm *string*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **node**
Description	Destination-Realm to where the diameter application messages should be delivered.
String Length	1 to 80
Introduced	16.0.R4
Notes	This element is part of a choice

origin-host *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **node**
Description	Origin-host that identifies the diameter-node that is to be used for transmission
Reference	configure **aaa diameter node** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

on-failure

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Enter the on-failure context
Introduced	16.0.R1

failover *boolean*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **on-failure**
Description	Session peer failover
Default	true
Introduced	16.0.R1

handling *keyword*

Context	**configure subscriber-mgmt diameter-gy-policy** *string* **on-failure**
Description	Session peer failure handling
Default	terminate
Options	terminate, continue, retry-and-terminate
Introduced	16.0.R1

peer-policy *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Configure the policy for the Diameter peers.
Reference	configure **aaa diameter peer-policy** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

statistics

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Enter the statistics context
Introduced	16.0.R4

tx-timer *number*

Context	**configure subscriber-mgmt diameter-gy-policy** *string*
Description	Maximum wait time for a pending session request
Range	10 to 1000
Default	10
Units	seconds
Introduced	16.0.R1

diameter-nasreq-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the diameter-nasreq-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Diameter application policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

nasreq

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Enter the nasreq context
Introduced	16.0.R1

include-avp

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq**
Description	Enter the include-avp context
Introduced	16.0.R1

called-station-id *boolean*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**
Description	Include the Called-Station-Id.
Default	false
Introduced	16.0.R1

calling-station-id

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**
Description	Enter the calling-station-id context
Introduced	16.0.R1

type *keyword*

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp calling-station-id**

Description Origin of the calling-station-id.

Default sap-string

Options sap-string, mac, sap-id, remote-id, llid

Introduced 16.0.R1

circuit-id *boolean*

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**

Description Include the Circuit-Id.

Default false

Introduced 16.0.R1

imei *boolean*

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**

Description Include the IMEI

Default false

Introduced 16.0.R1

nas-port

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**

Description Enter the nas-port context

Introduced 16.0.R1

bit-spec *binary-specification*

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port**

Description NAS-Port AVP format

String Length 1 to 255

Introduced 16.0.R1

Notes This element is mandatory

nas-port-id

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**

Description Enter the nas-port-id context

Introduced 16.0.R1

prefix-string *string*

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-id**

Description Prefix string for NAS-Port-Id AVP

String Length 1 to 8

Introduced 16.0.R1

suffix

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-id**

Description Enter the suffix context

Introduced 16.0.R1

circuit-id

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-id suffix**

Description Add Circuit ID as suffix

Introduced 16.0.R1

Notes This element is part of a choice

not-included

Context **configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-id suffix**

Description Do not add a suffix

Introduced 16.0.R1

Notes This element is part of a choice

remote-id

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-id suffix**
Description	Add Remote ID as suffix
Introduced	16.0.R1
Notes	This element is part of a choice

user-string *string*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-id suffix**
Description	Add a user configurable string as suffix
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

nas-port-type

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**
Description	Enter the nas-port-type context
Introduced	16.0.R1

type (*keyword* | *number*)

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp nas-port-type**
Description	NAS-Port-Type AVP value
Range	0 to 255
Default	rfc-aligned
Options	rfc-aligned
Introduced	16.0.R1

rat-type *boolean*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**
Description	Include the RAT-Type.
Default	false
Introduced	16.0.R1

remote-id *boolean*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**
Description	Include the Remote-Id.
Default	false
Introduced	16.0.R1

user-location-info *boolean*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq include-avp**
Description	Include the user-location-info.
Default	false
Introduced	16.0.R1

mac-format *mac-specification*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq**
Description	MAC address format
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq**
Description	AA-request password
String Length	1 to 114
Introduced	16.0.R1

user-name

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq**
Description	Enter the user-name context
Introduced	16.0.R1

domain-name *string*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq user-name**
Description	Domain name
String Length	1 to 128
Introduced	16.0.R1

format *keyword*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq user-name**
Description	Format type for username
Default	mac
Options	mac, circuit-id, tuple, ascii-converted-circuit-id, ascii-converted-tuple, dhcp-client-vendor-opts, mac-giaddr, nas-port-id
Introduced	16.0.R1

operation *user-name-format-domain-operation*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **nasreq user-name**
Description	Operation to perform
Options	append, strip, replace, default
Introduced	16.0.R1

node

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Enter the **node** context
Introduced	16.0.R4

destination-realm *string*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **node**
Description	Destination-Realm to where the diameter application messages should be delivered.
String Length	1 to 80
Introduced	16.0.R4
Notes	This element is part of a choice

origin-host *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **node**
Description	Origin-host that identifies the diameter-node that is to be used for transmission
Reference	configure **aaa diameter node** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

on-failure

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Enter the on-failure context
Introduced	16.0.R1

failover *boolean*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **on-failure**
Description	Session peer failover
Default	true
Introduced	16.0.R1

handling *keyword*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string* **on-failure**
Description	Session peer failure handling
Default	terminate
Options	terminate, continue, retry-and-terminate
Introduced	16.0.R1

peer-policy *string*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Configure the policy for the Diameter peers.
Reference	configure **aaa diameter peer-policy** *string*
Introduced	16.0.R4
Notes	This element is part of a choice

statistics

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Enter the statistics context
Introduced	16.0.R4

tx-timer *number*

Context	**configure subscriber-mgmt diameter-nasreq-policy** *string*
Description	Maximum wait time for a pending session request
Range	10 to 1000
Default	10
Units	seconds
Introduced	16.0.R1

explicit-subscriber-map

Context	**configure subscriber-mgmt**
Description	Enter the explicit-subscriber-map context
Introduced	16.0.R1

entry [subscriber-id] *subscriber-id*

Context	**configure subscriber-mgmt explicit-subscriber-map**
Description	Enter the entry context
Introduced	16.0.R1

[subscriber-id] *subscriber-id*

Context	**configure subscriber-mgmt explicit-subscriber-map entry** *subscriber-id*
Description	Subscriber Identification string
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

alias *string*

Context	**configure subscriber-mgmt explicit-subscriber-map entry** *subscriber-id*
Description	Alias for subscriber identification string
String Length	1 to 64
Introduced	16.0.R1

sla-profile *string*

Context	**configure subscriber-mgmt explicit-subscriber-map entry** *subscriber-id*
Description	SLA profile name
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure subscriber-mgmt explicit-subscriber-map entry** *subscriber-id*
Description	Subscriber profile name
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

gtp

Context	**configure subscriber-mgmt**
Description	Enter the gtp context
Introduced	16.0.R1

apn-policy [name] *string*

Context	**configure subscriber-mgmt gtp**
Description	Enter the apn-policy context
Max. Elements	128
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt gtp apn-policy** *string*
Description	GTP APN policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

apn [apn-name] *string*

Context	**configure subscriber-mgmt gtp apn-policy** *string*
Description	Enter the apn context
Max. Elements	1024
Introduced	16.0.R1

[apn-name] *string*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string*
Description	GTP APN name
String Length	1 to 80
Introduced	16.0.R1
Notes	This element is part of a list key

defaults

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string*
Description	Enter the defaults context
Introduced	16.0.R1

group-interface

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string* **defaults**
Description	Enter the group-interface context
Introduced	16.0.R1

name *interface-name*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string* **defaults group-interface**
Description	Group interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

svc-name *service-name*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string* **defaults group-interface**
Description	Group interface service name
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is mandatory

diameter-nasreq-policy *string*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string*
Description	NASREQ authentication policy name
Reference	configure **subscriber-mgmt diameter-nasreq-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

radius-auth-policy *string*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string*
Description	RADIUS authentication policy name
Reference	configure **subscriber-mgmt radius-authentication-policy** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

skip-gtp-ipv4-allocation *boolean*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string*
Description	defer IPv4 address allocation to DHCP
Default	false
Introduced	16.0.R1

user-db *string*

Context	**configure subscriber-mgmt gtp apn-policy** *string* **apn** *string*
Description	Local user database name
Reference	configure **subscriber-mgmt local-user-db** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

max-held-uplink-sessions *number*

Context	**configure subscriber-mgmt gtp**
Description	Maximum GTP sessions to be held while there is no corresponding ESM state
Range	0 to 500000
Default	2000
Introduced	16.0.R1

peer-profile [name] *string*

Context	**configure subscriber-mgmt gtp**
Description	Enter the peer-profile context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	GTP peer profile name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

interface-type *keyword*

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	3GPP interface type for connections toward this peer
Options	gn, s2a, s2b, s11
Introduced	16.0.R1

ip-ttl *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	IP TTL value for GTP control messages.
Range	1 to 255
Default	255
Introduced	16.0.R1

keep-alive

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	Enter the keep-alive context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **keep-alive**
Description	Enable/disable GTP-C echo messages.
Default	enable
Options	enable, disable
Introduced	16.0.R1

interval *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **keep-alive**
Description	Frequency for sending keepalives
Range	60 to 180
Default	60
Units	seconds
Introduced	16.0.R1

retry-count *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **keep-alive**
Description	Maximum number of unanswered echo retries after which keepalive failure is detected
Range	1 to 15
Default	4
Introduced	16.0.R1

timeout *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **keep-alive**
Description	Timeout after which an echo request is considered unanswered
Range	1 to 20
Default	5
Units	seconds
Introduced	16.0.R1

message-retransmit

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	Enter the message-retransmit context
Introduced	16.0.R1

retry-count *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **message-retransmit**
Description	Maximum number of unanswered retries after which the message is considered failed
Range	1 to 8
Default	3
Introduced	16.0.R1

timeout *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **message-retransmit**
Description	Timeout after which a message is considered unanswered
Range	1 to 30
Default	5
Units	seconds
Introduced	16.0.R1

python-policy *string*

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	Python policy used to process GTP messages.
Reference	configure **python python-policy** *string*
Introduced	16.0.R1

s11

Context	**configure subscriber-mgmt gtp peer-profile** *string*
Description	Enter the s11 context
Introduced	16.0.R1

change-reporting-action (*number* | *keyword*)

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11**
Description	The value of the Change Reporting Action Information Element sent to the peer.
Range	0 to 255
Options	cgi-sai, rai, tai, ecgi, cgi-sai-rai, tai-ecgi
Introduced	16.0.R1

end-marker-count *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11**
Description	The number of GTP-U end-marker packets sent after mobility.
Range	0 to 5
Default	1
Introduced	16.0.R1

ipv4-mtu *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11**
Description	IPv4 MTU signaled in the Protocol Configuration Options (PCO)
Range	512 to 9000
Default	1400
Introduced	16.0.R1

qos

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11**
Description	Enter the qos context
Introduced	16.0.R1

ambr

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11 qos**
Description	Enter the ambr context
Introduced	16.0.R1

down-link *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11 qos ambr**
Description	Downlink Aggregated Maximum Bit Rate (AMBR)
Range	0 to 10000000
Default	20000
Units	kilobps
Introduced	16.0.R1

up-link *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11 qos ambr**
Description	Uplink Aggregated Maximum Bit Rate (AMBR)
Range	0 to 10000000
Default	10000
Units	kilobps
Introduced	16.0.R1

arp *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11 qos**
Description	Allocation or retention priority
Range	1 to 15
Default	1
Introduced	16.0.R1

down-link

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11 qos**
Description	Enter the down-link context
Introduced	16.0.R1

gbr *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **s11 qos down-link**
Description	Guaranteed Bit Rate (GBR)
Range	0 to 100000
Default	0
Units	kilobps
Introduced	16.0.R1

mbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **s11 qos down-link**
Description Maximum Bit Rate (MBR)
Range 0 to 100000
Default 0
Units kilobps
Introduced 16.0.R1

qci *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **s11 qos**
Description QoS Class Identifier (QCI) value that is used in GTP messages
Range 1 to 9
Default 8
Introduced 16.0.R1

up-link

Context **configure subscriber-mgmt gtp peer-profile** *string* **s11 qos**
Description Enter the up-link context
Introduced 16.0.R1

gbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **s11 qos up-link**
Description Guaranteed Bit Rate (GBR)
Range 0 to 100000
Default 0
Units kilobps
Introduced 16.0.R1

mbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **s11 qos up-link**

Description Maximum Bit Rate (MBR)

Range 0 to 100000

Default 0

Units kilobps

Introduced 16.0.R1

uplink

Context **configure subscriber-mgmt gtp peer-profile** *string*

Description Enter the uplink context

Introduced 16.0.R1

charging-characteristics

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink**

Description Enter the charging-characteristics context

Introduced 16.0.R1

home

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics**

Description Enter the home context

Introduced 16.0.R1

bit0 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 0 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit1 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 1 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit10 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 10 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit11 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 11 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit12 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 12 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit13 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 13 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit14 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 14 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit15 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 15 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit2 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 2 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit3 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 3 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit4 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 4 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit5 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 5 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit6 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 6 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit7 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 7 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit8 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 8 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit9 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics home**

Description Set bit 9 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

roaming

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics**

Description Enter the roaming context

Introduced 16.0.R1

bit0 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 0 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit1 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 1 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit10 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 10 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit11 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 11 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit12 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 12 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit13 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 13 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit14 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 14 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit15 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 15 in charging characteristics information element (IE) for home UE

Default false

Introduced 16.0.R1

bit2 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 2 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit3 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 3 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit4 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 4 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit5 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 5 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit6 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 6 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit7 *boolean*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**

Description Set bit 7 in charging characteristics information element (IE) for roaming UE

Default false

Introduced 16.0.R1

bit8 *boolean*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**
Description	Set bit 8 in charging characteristics information element (IE) for roaming UE
Default	false
Introduced	16.0.R1

bit9 *boolean*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink charging-characteristics roaming**
Description	Set bit 9 in charging characteristics information element (IE) for roaming UE
Default	false
Introduced	16.0.R1

ggsn

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink**
Description	Enter the ggsn context
Introduced	16.0.R1

qos

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn**
Description	Enter the qos context
Introduced	16.0.R1

ambr

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos**
Description	Enter the ambr context
Introduced	16.0.R1

down-link *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos ambr**
Description	Downlink Aggregated Maximum Bit Rate (AMBR)
Range	0 to 10000000
Units	kilobps
Introduced	16.0.R1
Notes	This element is mandatory

up-link *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos ambr**
Description	Uplink Aggregated Maximum Bit Rate (AMBR)
Range	0 to 10000000
Units	kilobps
Introduced	16.0.R1
Notes	This element is mandatory

arp *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos**
Description	Allocation or retention priority
Range	1 to 3
Default	1
Introduced	16.0.R1

down-link

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos**
Description	Enter the down-link context
Introduced	16.0.R1

gbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos down-link**

Description Guaranteed Bit Rate (GBR)

Range 0 to 100000

Default 2000

Units kilobps

Introduced 16.0.R1

mbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos down-link**

Description Maximum Bit Rate (MBR)

Range 0 to 100000

Default 2000

Units kilobps

Introduced 16.0.R1

up-link

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos**

Description Enter the up-link context

Introduced 16.0.R1

gbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos up-link**

Description Guaranteed Bit Rate (GBR)

Range 0 to 100000

Default 5000

Units kilobps

Introduced 16.0.R1

mbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink ggsn qos up-link**
Description Maximum Bit Rate (MBR)
Range 0 to 100000
Default 5000
Units kilobps
Introduced 16.0.R1

pgw

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink**
Description Enter the pgw context
Introduced 16.0.R1

qos

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw**
Description Enter the qos context
Introduced 16.0.R1

ambr

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos**
Description Enter the ambr context
Introduced 16.0.R1

down-link *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos ambr**
Description Downlink Aggregated Maximum Bit Rate (AMBR)
Range 0 to 10000000
Default 20000
Units kilobps
Introduced 16.0.R1

up-link *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos ambr**
Description	Uplink Aggregated Maximum Bit Rate (AMBR)
Range	0 to 10000000
Default	10000
Units	kilobps
Introduced	16.0.R1

arp *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos**
Description	Allocation or retention priority
Range	1 to 15
Default	1
Introduced	16.0.R1

down-link

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos**
Description	Enter the down-link context
Introduced	16.0.R1

gbr *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos down-link**
Description	Guaranteed Bit Rate (GBR)
Range	0 to 100000
Default	0
Units	kilobps
Introduced	16.0.R1

mbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos down-link**

Description Maximum Bit Rate (MBR)

Range 0 to 100000

Default 0

Units kilobps

Introduced 16.0.R1

qci *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos**

Description QoS Class Identifier (QCI) value that is used in GTP messages

Range 1 to 9

Default 8

Introduced 16.0.R1

up-link

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos**

Description Enter the up-link context

Introduced 16.0.R1

gbr *number*

Context **configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos up-link**

Description Guaranteed Bit Rate (GBR)

Range 0 to 100000

Default 0

Units kilobps

Introduced 16.0.R1

mbr *number*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink pgw qos up-link**
Description	Maximum Bit Rate (MBR)
Range	0 to 100000
Default	0
Units	kilobps
Introduced	16.0.R1

protocol-configuration-options *keyword*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink**
Description	Information element to use for the protocol configuration options
Default	pco
Options	pco, apco
Introduced	16.0.R1

rat-type (*number* | *keyword*)

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink**
Description	The default Radio Access Technology type signaled during GTP set-up.
Range	0 to 255
Default	wlan
Options	utran, geran, wlan, gan, hspa, eutran, virtual
Introduced	16.0.R1

report-wlan-location *boolean*

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink**
Description	Report the wlan location of the UE during session set-up.
Default	false
Introduced	16.0.R1

session-hold-time (*number* | *keyword*)

Context	**configure subscriber-mgmt gtp peer-profile** *string* **uplink**
Description	Time to hold a GTP session after its UE is disconnected
Range	0 to 3600
Default	30
Options	remaining-lease-time
Introduced	16.0.R1

serving-network

Context	**configure subscriber-mgmt gtp**
Description	Enter the serving-network context
Introduced	16.0.R1

mcc *string*

Context	**configure subscriber-mgmt gtp serving-network**
Description	Mobile Country Code (MCC) portion of serving network
String Length	3
Introduced	16.0.R1
Notes	This element is mandatory

mnc *string*

Context	**configure subscriber-mgmt gtp serving-network**
Description	Mobile Network Code (MNC) portion of serving network
String Length	2 to 3
Introduced	16.0.R1
Notes	This element is mandatory

host-lockout-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the host-lockout-policy context
Max. Elements	128
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt host-lockout-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt host-lockout-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

host-key *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt host-lockout-policy** *string*
Description	Parameters used in host identification for lockout on specified SAP or capture SAP
Default	all
Options	all, mac
Introduced	16.0.R1

lockout-reset-time *number*

Context	**configure subscriber-mgmt host-lockout-policy** *string*
Description	Lockout reset time settings
Range	1 to 86400
Default	60
Units	seconds
Introduced	16.0.R1

lockout-time

Context	**configure subscriber-mgmt host-lockout-policy** *string*
Description	Enter the lockout-time context
Introduced	16.0.R1

max *number*

Context	**configure subscriber-mgmt host-lockout-policy** *string* **lockout-time**
Description	Maximum lockout time
Range	1 to 86400
Default	3600
Units	seconds
Introduced	16.0.R1

min *number*

Context	**configure subscriber-mgmt host-lockout-policy** *string* **lockout-time**
Description	Minimum lockout time
Range	1 to 86400
Default	10
Units	seconds
Introduced	16.0.R1

max-lockout-hosts *number*

Context	**configure subscriber-mgmt host-lockout-policy** *string*
Description	Max lockout hosts
Range	1 to 32000
Default	100
Introduced	16.0.R1

host-tracking-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the host-tracking-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt host-tracking-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt host-tracking-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-rate-modify

Context	**configure subscriber-mgmt host-tracking-policy** *string*
Description	Enter the egress-rate-modify context
Introduced	16.0.R1

agg-rate

Context	**configure subscriber-mgmt host-tracking-policy** *string* **egress-rate-modify**
Description	Aggregate rate that applies for modification
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler *string*

Context	**configure subscriber-mgmt host-tracking-policy** *string* **egress-rate-modify**
Description	Scheduler to be applied for rate modification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

http-redirect-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the http-redirect-policy context
Max. Elements	16
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt http-redirect-policy** *string*
Description	Identification of the http redirect policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt http-redirect-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dst-port *number*

Context	**configure subscriber-mgmt http-redirect-policy** *string*
Description	Destination port number of the HTTP request to match
Range	1 to 65535
Default	80
Introduced	16.0.R1

forward-entry dst-ip (*ipv4-prefix* | *ipv6-prefix*) **protocol** *keyword* **dst-port** *number*

Context	**configure subscriber-mgmt http-redirect-policy** *string*
Description	Enter the forward-entry context
Introduced	16.0.R1

dst-ip (*ipv4-prefix* | *ipv6-prefix*)

Context **configure subscriber-mgmt http-redirect-policy** *string* **forward-entry dst-ip** (*ipv4-prefix* | *ipv6-prefix*) **protocol** *keyword* **dst-port** *number*

Description Destination address

Introduced 16.0.R1

Notes This element is part of a list key

protocol *keyword*

Context **configure subscriber-mgmt http-redirect-policy** *string* **forward-entry dst-ip** (*ipv4-prefix* | *ipv6-prefix*) **protocol** *keyword* **dst-port** *number*

Description Destination protocol

Options tcp, udp

Introduced 16.0.R1

Notes This element is part of a list key

dst-port *number*

Context **configure subscriber-mgmt http-redirect-policy** *string* **forward-entry dst-ip** (*ipv4-prefix* | *ipv6-prefix*) **protocol** *keyword* **dst-port** *number*

Description Destination port

Range 1 to 65535

Introduced 16.0.R1

Notes This element is part of a list key

portal-hold-time *number*

Context **configure subscriber-mgmt http-redirect-policy** *string*

Description Time for holding on to the re-direct forwarding resources after the subscriber has left the portal

Range 1 to 60

Introduced 16.0.R1

url *http-redirect-url*

Context	**configure subscriber-mgmt http-redirect-policy** *string*
Description	HTTP URL to which the matching traffic is redirected. Only macros $URL, $MAC, $IP are supported in this case. For unsupported macros, the string is not modified.
Introduced	16.0.R1

igmp-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the igmp-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-rate-modify

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Enter the egress-rate-modify context
Introduced	16.0.R1

agg-rate

Context	**configure subscriber-mgmt igmp-policy** *string* **egress-rate-modify**
Description	Aggregate rate that applies for modification
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler *string*

Context	**configure subscriber-mgmt igmp-policy** *string* **egress-rate-modify**
Description	Scheduler to be applied for rate modification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

fast-leave *boolean*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Enable fast leave
Default	true
Introduced	16.0.R1

import-policy *string*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Import policy that filters IGMP packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Maximum number of group sources
Range	1 to 32000
Introduced	16.0.R1

maximum-number-groups *number*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Max groups number for which IGMP can have local receiver information based on received IGMP reports
Range	1 to 16000
Introduced	16.0.R1

maximum-number-sources *number*

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Maximum number of sources that are allowed per group
Range	1 to 1000
Introduced	16.0.R1

multicast-reporter

Context	**configure subscriber-mgmt igmp-policy** *string*
Description	Enter the multicast-reporter context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure subscriber-mgmt igmp-policy** *string* **multicast-reporter**
Description	Administrative state of multicast reporter
Default	disable
Options	enable, disable
Introduced	16.0.R4

destination *string*

Context	**configure subscriber-mgmt igmp-policy** *string* **multicast-reporter**
Description	Multicast reporter destination
Reference	configure **multicast-management multicast-reporting-destination** *string*
Introduced	16.0.R4

optional-fields

Context **configure subscriber-mgmt igmp-policy** *string* **multicast-reporter**

Description Enter the optional-fields context

Introduced 16.0.R4

host-mac *boolean*

Context **configure subscriber-mgmt igmp-policy** *string* **multicast-reporter optional-fields**

Description Include host mac address

Default false

Introduced 16.0.R4

pppoe-session-id *boolean*

Context **configure subscriber-mgmt igmp-policy** *string* **multicast-reporter optional-fields**

Description Include the PPPoE session ID in multicast reporting messages

Default false

Introduced 16.0.R4

sap-id *boolean*

Context **configure subscriber-mgmt igmp-policy** *string* **multicast-reporter optional-fields**

Description Include sap ID

Default false

Introduced 16.0.R4

svc-id *boolean*

Context **configure subscriber-mgmt igmp-policy** *string* **multicast-reporter optional-fields**

Description Include service ID

Default false

Introduced 16.0.R4

query-interval *number*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Time to wait for a response to the host-query messages

Range 1 to 1023

Introduced 16.0.R1

redirection-policy *string*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Policy for redirection.

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

replication *keyword*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Specifies where outgoing traffic will be replicated.

Default per-sap

Options per-sap, per-host

Introduced 16.0.R1

router-alert-check *boolean*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Enable IGMP router alert check option

Default true

Introduced 16.0.R1

static

Context **configure subscriber-mgmt igmp-policy** *string*

Description Enter the static context

Introduced 16.0.R1

group [group-address] *ipv4-multicast-address*

Context **configure subscriber-mgmt igmp-policy** *string* **static**

Description Enter the group context

Introduced 16.0.R1

[group-address] *ipv4-multicast-address*

Context **configure subscriber-mgmt igmp-policy** *string* **static group** *ipv4-multicast-address*

Description Group address of multicast channel

Introduced 16.0.R1

Notes This element is part of a list key

source [source-address] *ipv4-unicast-address*

Context **configure subscriber-mgmt igmp-policy** *string* **static group** *ipv4-multicast-address*

Description Enter the **source** context

Introduced 16.0.R3

[source-address] *ipv4-unicast-address*

Context **configure subscriber-mgmt igmp-policy** *string* **static group** *ipv4-multicast-address* **source** *ipv4-unicast-address*

Description Source address of multicast channel.

Introduced 16.0.R3

Notes This element is part of a choice

This element is part of a list key

starg

Context **configure subscriber-mgmt igmp-policy** *string* **static group** *ipv4-multicast-address*

Description any source address (*,G)

Introduced 16.0.R3

Notes This element is part of a choice

use-multicast-destination-mac *boolean*

Context **configure subscriber-mgmt igmp-policy** *string*

Description Use multicast destination mac address for outgoing traffic.

Default false

Introduced 16.0.R4

version *keyword*

Context **configure subscriber-mgmt igmp-policy** *string*

Description IGMP protocol version

Default 3

Options 1, 2, 3

Introduced 16.0.R1

ipoe-session-policy [name] *string*

Context **configure subscriber-mgmt**

Description Enter the ipoe-session-policy context

Max. Elements 256

Introduced 16.0.R1

[name] *string*

Context	**configure subscriber-mgmt ipoe-session-policy** *string*
Description	Name for IPoE session policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

circuit-id-from-auth *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt ipoe-session-policy** *string*
Description	Use the Circuit ID from the authentication server to identify a session
Default	false
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt ipoe-session-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

session-key

Context	**configure subscriber-mgmt ipoe-session-policy** *string*
Description	Enter the session-key context
Introduced	16.0.R1

cid *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure subscriber-mgmt ipoe-session-policy** *string* **session-key**
Description Use the Circuit ID as part of the index
Introduced 16.0.R1

mac *boolean*

Context **configure subscriber-mgmt ipoe-session-policy** *string* **session-key**
Description Use the MAC address as part of the index
Introduced 16.0.R1

rid *boolean*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context **configure subscriber-mgmt ipoe-session-policy** *string* **session-key**
Description Use the remote ID as part of the index
Introduced 16.0.R1

sap *boolean*

Context **configure subscriber-mgmt ipoe-session-policy** *string* **session-key**
Description Use the SAP ID as part of the index
Introduced 16.0.R1

session-timeout (*number* | *keyword*)

Context **configure subscriber-mgmt ipoe-session-policy** *string*
Description Timeout for IPoE sessions
Range 1 to 31104000
Default unlimited
Options unlimited
Introduced 16.0.R1

isa-filter [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the isa-filter context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt isa-filter** *string*
Description	ISA filter name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt isa-filter** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ipv4

Context	**configure subscriber-mgmt isa-filter** *string*
Description	Enter the ipv4 context
Introduced	16.0.R1

default-action *keyword*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv4**
Description	Action for non-matching entry
Options	drop, forward
Introduced	16.0.R1

entry [id] *number*

Context **configure subscriber-mgmt isa-filter** *string* **ipv4**

Description Enter the entry context

Introduced 16.0.R1

[id] *number*

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number*

Description Identification for the ISA filter entry

Range 1 to 1024

Introduced 16.0.R1

Notes This element is part of a list key

action

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number*

Description Action for matching entry

Introduced 16.0.R1

drop

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number* **action**

Description A packet matching the entry will be dropped

Introduced 16.0.R5

Notes This element is part of a choice

forward

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number* **action**

Description A packet matching the entry will be forwarded

Introduced 16.0.R5

Notes This element is part of a choice

description *string*

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number*

Description Enter the match context

Introduced 16.0.R1

dst-ip *ipv4-prefix*

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number* **match**

Description Destination IPv4 prefix

Introduced 16.0.R1

dst-port

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

equals *number*

Context **configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number* **match dst-port**

Description Exact port number

Range 0 | 1 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

protocol *keyword*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv4 entry** *number* **match**
Description	Protocol
Options	icmp, tcp, udp, gre
Introduced	16.0.R1

ipv6

Context	**configure subscriber-mgmt isa-filter** *string*
Description	Enter the ipv6 context
Introduced	16.0.R1

default-action *keyword*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv6**
Description	Action for non-matching entry
Options	drop, forward
Introduced	16.0.R1

entry [id] *number*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv6**
Description	Enter the entry context
Introduced	16.0.R1

[id] *number*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number*
Description	Identification for the ISA filter entry
Range	1 to 1024
Introduced	16.0.R1
Notes	This element is part of a list key

action

Context **configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number*

Description Action for matching entry

Introduced 16.0.R1

drop

Context **configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number* **action**

Description A packet matching the entry will be dropped

Introduced 16.0.R5

Notes This element is part of a choice

forward

Context **configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number* **action**

Description A packet matching the entry will be forwarded

Introduced 16.0.R5

Notes This element is part of a choice

description *string*

Context **configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number*

Description Text description

String Length 1 to 80

Introduced 16.0.R1

match

Context **configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number*

Description Enter the match context

Introduced 16.0.R1

dst-ip *ipv6-prefix*

Context **configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number* **match**

Description Destination IPv6 prefix

Introduced 16.0.R1

dst-port

Context	**configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number* **match**
Description	Enter the dst-port context
Introduced	16.0.R1

equals *number*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number* **match dst-port**
Description	Exact port number
Range	0 | 1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

protocol *keyword*

Context	**configure subscriber-mgmt isa-filter** *string* **ipv6 entry** *number* **match**
Description	Protocol
Options	icmp, tcp, udp, gre
Introduced	16.0.R1

type *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-filter** *string*
Description	Limit what the ISA filter can be used for
Default	dsm
Options	dsm
Introduced	16.0.R1

isa-policer [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the isa-policer context
Max. Elements	128
Introduced	16.0.R1

[name] *string*

Context **configure subscriber-mgmt isa-policer** *string*
Description ISA policer name
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a list key

action *keyword*

Context **configure subscriber-mgmt isa-policer** *string*
Description Action to be taken for packets that are in-profile and out-of-profile
Default permit-deny
Options permit-deny, priority-mark
Introduced 16.0.R1

adaptation-rule

Context **configure subscriber-mgmt isa-policer** *string*
Description Enter the adaptation-rule context
Introduced 16.0.R1

cir *keyword*

Context **configure subscriber-mgmt isa-policer** *string* **adaptation-rule**
Description Committed information rate
Default closest
Options max, min, closest
Introduced 16.0.R1

pir *keyword*

Context **configure subscriber-mgmt isa-policer** *string* **adaptation-rule**
Description Peak Information Rate
Default closest
Options max, min, closest
Introduced 16.0.R1

cbs *number*

Context **configure subscriber-mgmt isa-policer** *string*
Description Committed burst size
Range 0 to 131071
Default 0
Introduced 16.0.R1

description *string*

Context **configure subscriber-mgmt isa-policer** *string*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

mbs *number*

Context **configure subscriber-mgmt isa-policer** *string*
Description Maximum Burst Size
Range 0 to 131071
Default 0
Introduced 16.0.R1

rate

Context **configure subscriber-mgmt isa-policer** *string*
Description Enter the rate context
Introduced 16.0.R1

cir (*kilobytes* | *keyword*)

Context **configure subscriber-mgmt isa-policer** *string* **rate**
Description Committed information rate
Default 0
Introduced 16.0.R1

pir (*kilobytes* | *keyword*)

Context	**configure subscriber-mgmt isa-policer** *string* **rate**
Description	Peak Information Rate
Default	max
Introduced	16.0.R1

type *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-policer** *string*
Description	Policing technique
Default	single-bucket-bandwidth
Options	single-bucket-bandwidth, dual-bucket-bandwidth
Introduced	16.0.R1

isa-service-chaining

Context	**configure subscriber-mgmt**
Description	Enter the isa-service-chaining context
Introduced	16.0.R1

evpn [id] *service-name*

Context	**configure subscriber-mgmt isa-service-chaining**
Description	Enter the evpn context
Max. Elements	1024
Introduced	16.0.R1

[id] *service-name*

Context	**configure subscriber-mgmt isa-service-chaining evpn** *service-name*
Description	Service-id of the EVPN
String Length	1 to 64
Introduced	16.0.R4
Notes	This element is part of a list key

admin-state *keyword*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name*

Description Administrative state of EVPN

Default disable

Options enable, disable

Introduced 16.0.R1

bgp

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name*

Description Enter the bgp context

Introduced 16.0.R1

route-distinguisher

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **bgp**

Description Enter the route-distinguisher context

Introduced 16.0.R1

rd (*keyword* | *vpn-route-distinguisher*)



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **bgp route-distinguisher**

Description High-order 6 bytes that are used as string to compose VSI-ID for use in NLRI

Introduced 16.0.R1

route-target

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **bgp**

Description Enter the route-target context

Introduced 16.0.R1

export *route-target-32*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining evpn** *service-name* **bgp route-target**
Description	Extended community name for default export policy for BGP in EVPN service
String Length	10 to 32
Introduced	16.0.R1
Notes	This element is mandatory

import *route-target-32*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining evpn** *service-name* **bgp route-target**
Description	Extended community name for default import policy for BGP in EVPN service
String Length	10 to 32
Introduced	16.0.R1
Notes	This element is mandatory

description *string*

Context	**configure subscriber-mgmt isa-service-chaining evpn** *service-name*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

export

Context	**configure subscriber-mgmt isa-service-chaining evpn** *service-name*
Description	Enter the export context
Introduced	16.0.R1

advertise-pools

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export**

Description Enter the advertise-pools context

Introduced 16.0.R4

admin-state *keyword*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export advertise-pools**

Description Administrative state of IP routes advertised from NAT pools

Default disable

Options enable, disable

Introduced 16.0.R4

pool router-instance *string* name *string*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export advertise-pools**

Description Enter the pool context

Introduced 16.0.R4

router-instance *string*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export advertise-pools pool router-instance** *string* **name** *string*

Description Router-instance of the NAT pool

Introduced 16.0.R4

Notes This element is part of a list key

name *string*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export advertise-pools pool router-instance** *string* **name** *string*

Description Name of the NAT pool

String Length 1 to 32

Introduced 16.0.R4

Notes This element is part of a list key

gateway-address-range

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export**

Description Enter the gateway-address-range context

Introduced 16.0.R1

end *ipv4-unicast-address*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export gateway-address-range**

Description End of the gateway address range (V4) for this EVPN service

Introduced 16.0.R4

Notes This element is mandatory

start *ipv4-unicast-address*

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export gateway-address-range**

Description Start of the gateway address range (V4) for this EVPN service

Introduced 16.0.R4

Notes This element is mandatory

vxlan

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export**

Description Enter the vxlan context

Introduced 16.0.R1

vni *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure subscriber-mgmt isa-service-chaining evpn** *service-name* **export vxlan**

Description VNI of the VXLAN created by the EVPN service

Range 1 to 16777215

Introduced 16.0.R1

import-mode *keyword*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining evpn** *service-name*
Description	Import mode for the EVPN
Default	none
Options	none, bridged, routed
Introduced	16.0.R1

mac-prefix *string*

Context	**configure subscriber-mgmt isa-service-chaining**
Description	Unique MAC prefix per ISA and per outside service for all NAT-groups configured for Service Chaining
String Length	8
Introduced	16.0.R1

vas-filter [name] *string*

Context	**configure subscriber-mgmt isa-service-chaining**
Description	Enter the vas-filter context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string*
Description	VAS filter name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

entry [id] *number*

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string*
Description	Enter the entry context
Max. Elements	64
Introduced	16.0.R1

[id] *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number*
Description	VAS filter entry id
Range	1 to 65535
Introduced	16.0.R4
Notes	This element is part of a list key

action [direction] *keyword*

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number*
Description	Enter the action context
Introduced	16.0.R1

[direction] *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword*
Description	Direction for the action in a VAS filter entry
Options	upstream, downstream
Introduced	16.0.R1
Notes	This element is part of a list key

fail-action *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword*
Description	Fail action when packet matches VAS filter entry in specific direction but no forward or NSH specified
Default	accept
Options	drop, accept
Introduced	16.0.R1

forward

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword*
Description	Enter the forward context
Introduced	16.0.R1

esi *ethernet-segment-id*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **forward**
Description	ESI (Ethernet Segment Identifier) for the action in a VAS filter
Introduced	16.0.R1

sf-ip (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **forward**
Description	Forwarding SF (Service Forward) IP address for the action in VAS filter entry
Introduced	16.0.R1
Notes	This element is mandatory

svc *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **forward**
Description	EVPN service used for forwarding packets
Reference	configure **subscriber-mgmt isa-service-chaining evpn** *service-name*
Introduced	16.0.R1
Notes	This element is mandatory

insert-nsh

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword*
Description	Enter the insert-nsh context
Introduced	16.0.R1

meta-data

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **insert-nsh**
Description	Enter the meta-data context
Introduced	16.0.R1

insert-subscriber-id



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **insert-nsh meta-data**
Description	Insert the subscriber-id in the NSH
Introduced	16.0.R4
Notes	This element is part of a choice

opaque-data *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **insert-nsh meta-data**
Description	Opaque meta-data for the NSH
String Length	10|18|26|34
Introduced	16.0.R4
Notes	This element is part of a choice

svc-path

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **insert-nsh**
Description	Enter the svc-path context
Introduced	16.0.R1

path-id *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **insert-nsh svc-path**
Description	Path ID used to construct a NSH for the action in a VAS filter entry
Range	1 to 16777215
Introduced	16.0.R1
Notes	This element is mandatory

svc-index *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **action** *keyword* **insert-nsh svc-path**
Description	Service index used to construct a NSH for the action in a VAS filter entry
Range	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

admin-state *keyword*

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number*
Description	Administrative state of the VAS filter
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match

Context **configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number*

Description Enter the match context

Introduced 16.0.R1

foreign-ip (*string* | *string*)

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **match**

Description Foreign IP address or prefix to match in this VAS filter entry

Introduced 16.0.R1

foreign-port *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **match**

Description Foreign TCP or UDP port to match in this VAS filter entry

Range 1 to 65535

Introduced 16.0.R1

protocol *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure subscriber-mgmt isa-service-chaining vas-filter** *string* **entry** *number* **match**

Description IP protocol to match the VAS filter

Default none

Options tcp-udp, none, icmp, tcp, udp

Introduced 16.0.R1

local-user-db [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the local-user-db context
Max. Elements	127
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt local-user-db** *string*
Description	Local user database name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure subscriber-mgmt local-user-db** *string*
Description	Administrative state of the local user database
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt local-user-db** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ipoe

Context	**configure subscriber-mgmt local-user-db** *string*
Description	Enter the ipoe context
Introduced	16.0.R1

host [host-name] *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe**
Description Enter the host context
Introduced 16.0.R1

[host-name] *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description Host key
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a list key

admin-state *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description Administrative state of this IPOE host
Default disable
Options enable, disable
Introduced 16.0.R1

authentication

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description Enter the authentication context
Introduced 16.0.R1

auth-domain-name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **authentication**
Description Authentication domain name for this host
String Length 1 to 32
Introduced 16.0.R1

gx-policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **authentication**
Description	Diameter application policy
String Length	1 to 32
Introduced	16.0.R1

nasreq-auth-policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **authentication**
Description	Diameter NASREQ application policy to use for authentication
String Length	1 to 32
Introduced	16.0.R1

radius-auth-policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **authentication**
Description	Host authentication policy
String Length	1 to 32
Introduced	16.0.R1

gtp-interface

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Enter the gtp-interface context
Introduced	16.0.R1

name *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **gtp-interface**
Description	IP interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **gtp-interface**
Description	Service ID
Range	1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381
Introduced	16.0.R1
Notes	This element is mandatory

host-identification

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Enter the host-identification context
Introduced	16.0.R1

circuit-id

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**
Description	Enter the circuit-id context
Introduced	16.0.R1

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification circuit-id**
Description	Circuit ID as ASCII string
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification circuit-id**
Description	Circuit ID as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

derived-id *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**

Description Derived ID string

String Length 1 to 255

Introduced 16.0.R1

encap-tag-range

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**

Description Enter the encap-tag-range context

Introduced 16.0.R1

from *atm-or-vlan-encap*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification encap-tag-range**

Description Start tag

String Length 1 to 11

Introduced 16.0.R1

Notes This element is mandatory

to *atm-or-vlan-encap*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification encap-tag-range**

Description End tag

String Length 1 to 11

Introduced 16.0.R1

Notes This element is mandatory

ip-prefix (*ipv4-prefix-with-host-bits* | *ipv6-prefix-with-host-bits*)

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**

Description IP interface name

Introduced 16.0.R1

mac *mac-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**
Description	MAC address
Introduced	16.0.R1

option60

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**
Description	Enter the option60 context
Introduced	16.0.R1

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification option60**
Description	Option 60 as ASCII string
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification option60**
Description	Option 60 as hexadecimal string
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**
Description	Enter the remote-id context
Introduced	16.0.R1

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification remote-id**
Description	Remote ID as ASCII string
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification remote-id**
Description	Remote ID as hexadecimal string
String Length	1 to 512
Introduced	16.0.R1
Notes	This element is part of a choice

sap-id *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**
Description	SAP ID
String Length	1 to 255
Introduced	16.0.R1

service-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**
Description	Service ID
Range	1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381
Introduced	16.0.R1

string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**

Description VSO string

String Length 1 to 255

Introduced 16.0.R1

system-id *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **host-identification**

Description System ID

String Length 1 to 255

Introduced 16.0.R1

identification

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*

Description Enter the identification context

Introduced 16.0.R1

ancp-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**

Description ANCP string

String Length 1 to 63

Introduced 16.0.R1

category-map-name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**

Description Category map name

String Length 1 to 32

Introduced 16.0.R1

int-dest-id *int-dest-id*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

option-number *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**
Description	The option number used to return the strings in case the LUDB is linked to a DHCP server.
Range	1 to 254
Default	254
Introduced	16.0.R1

sla-profile-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**
Description	SLA profile string
String Length	1 to 16
Introduced	16.0.R1

spi-sharing-group-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**
Description	Group ID for SLA Profile Instance sharing per group
Range	0 to 65535
Introduced	16.0.R1

sub-profile-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**
Description	Sub profile string
String Length	1 to 16
Introduced	16.0.R1

subscriber-id *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **identification**
Description	Subscriber ID
String Length	1 to 32
Introduced	16.0.R1

ipv4

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Enter the ipv4 context
Introduced	16.0.R1

address

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4**
Description	Enter the address context
Introduced	16.0.R1

gi-address *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address**
Description	Use gi-address to select a pool with the given scope
Options	subnet-scope, pool-scope
Introduced	16.0.R1
Notes	This element is part of a choice

ip-address *ipv4-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address**
Description	IPv4 host address
Introduced	16.0.R1
Notes	This element is part of a choice

pool

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address**
Description	Enter the **pool** context
Introduced	16.0.R1

delimiter *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address pool**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1
Notes	This element is part of a choice

primary *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address pool**
Description	Primary pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

secondary *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address pool**
Description	Secondary pool name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

use-pool-from-client

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address**
Description	Enter the **use-pool-from-client** context
Introduced	16.0.R1

delimiter *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 address use-pool-from-client**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1
Notes	This element is part of a choice

gi-address *ipv4-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4**
Description	The DHCP gi-address of this host.
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

server *ipv4-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv4**
Description	IPv4 address of the DHCP server
Introduced	16.0.R1

ipv6

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Enter the ipv6 context
Introduced	16.0.R1

address *ipv6-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**
Description	IPv6 address of this host
Introduced	16.0.R1

address-pool *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description IPv6 address pool name

String Length 1 to 32

Introduced 16.0.R1

delegated-prefix *ipv6-unicast-prefix*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description IPv6 delegated prefix of this host

Introduced 16.0.R1

delegated-prefix-length *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description Delegated prefix length

Range 48 to 64

Introduced 16.0.R1

delegated-prefix-pool *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description Delegated prefix pool

String Length 1 to 32

Introduced 16.0.R1

link-address *ipv6-unicast-address*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description The DHCP Relay link-address.

Introduced 16.0.R1

option [number] (*number* | *keyword*)

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description Enter the option context

Introduced 16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 option** (*number* | *keyword*)
Description	The number of the DHCPv6 option.
Range	23
Options	dns-server
Introduced	16.0.R5
Notes	This element is part of a list key

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R5
Notes	This element is part of a choice

router-advertisement-policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**
Description	IPv6 router advertisement policy
String Length	1 to 32
Introduced	16.0.R1

server *ipv6-unicast-address*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description IPv6 address of the DHCP server

Introduced 16.0.R1

slaac-prefix *ipv6-unicast-prefix*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description IPv6 SLAAC prefix of this host

Introduced 16.0.R1

slaac-prefix-pool *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description IPv6 SLAAC prefix pool of this host

String Length 1 to 32

Introduced 16.0.R1

timers

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6**

Description Enter the timers context

Introduced 16.0.R1

preferred-lifetime (*number* | *keyword*)

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 timers**

Description Time for a lease to remain preferred

Range 300 to 315446399

Units seconds

Options infinite

Introduced 16.0.R1

rebind *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 timers**

Description Rebind timer (T2)

Range 0 to 1209600

Units seconds

Introduced 16.0.R1

renew *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 timers**

Description Renew timer (T1)

Range 0 to 604800

Units seconds

Introduced 16.0.R1

valid-lifetime (*number* | *keyword*)

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **ipv6 timers**

Description Time for a lease to remain valid

Range 300 to 315446399

Units seconds

Options infinite

Introduced 16.0.R1

match-radius-proxy-cache

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*

Description Enter the match-radius-proxy-cache context

Introduced 16.0.R1

fail-action *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache**
Description	Action when no match is found
Default	drop
Options	continue, drop
Introduced	16.0.R1

mac-format *mac-specification*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache**
Description	MAC address format
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

match

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache**
Description	Enter the match context
Introduced	16.0.R1

circuit-id *boolean*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache match**
Description	Match circuit ID in DHCP Option 82
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-option *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache match**
Description	DHCP option number
Range	1 to 254
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-option *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache match**
Description	DHCPv6 option number
Range	1 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

mac *boolean*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache match**
Description	Match MAC address of DHCP client
Default	true
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id *boolean*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache match**
Description	Match remote ID in DHCP Option 82
Introduced	16.0.R1
Notes	This element is part of a choice

server

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache**

Description Enter the server context

Introduced 16.0.R1

name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache server**

Description Server Name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is mandatory

service *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **match-radius-proxy-cache server**

Description Service ID

Range 1 to 2147483647

Introduced 16.0.R1

mld-import [policy-name] *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*

Description Enter the mld-import context

Max. Elements 14

Introduced 16.0.R1

[policy-name] *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **mld-import** *string*

Description MLD import policy for this host

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

msap-defaults

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*

Description Enter the msap-defaults context

Introduced 16.0.R1

group-interface

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **msap-defaults**

Description Enter the group-interface context

Introduced 16.0.R1

name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **msap-defaults group-interface**

Description IP interface name

String Length 1 to 32

Introduced 16.0.R1

Notes This element is mandatory

prefix *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **msap-defaults group-interface**

Description prefix.

Options port-id

Introduced 16.0.R1

Notes This element is part of a choice

suffix *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **msap-defaults group-interface**

Description Suffix for the group interface

Options port-id

Introduced 16.0.R1

Notes This element is part of a choice

policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **msap-defaults**

Description MSAP policy

String Length 1 to 32

Introduced 16.0.R1

service *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **msap-defaults**

Description The service id.

Range 1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381

Introduced 16.0.R1

radius-accounting-policy

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*

Description Enter the radius-accounting-policy context

Introduced 16.0.R1

duplicate *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **radius-accounting-policy**

Description RADIUS accounting policy for generating duplicate accounting information

String Length 1 to 32

Introduced 16.0.R1

name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **radius-accounting-policy**

Description RADIUS accounting policy for generating accounting information

String Length 1 to 32

Introduced 16.0.R1

retail-service-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Configure the retail service-id
Range	1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381
Introduced	16.0.R4

rip-policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	RIP policy
String Length	1 to 32
Introduced	16.0.R1

to-client-options

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Enter the to-client-options context
Introduced	16.0.R1

ipv4-option [number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options**
Description	Enter the ipv4-option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)

Description ASCII string for DHCP option

String Length 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

duration *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)

Description DHCP option as time duration

Range 10 to 315446399

Units seconds

Introduced 16.0.R4

Notes This element is part of a choice

empty

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)

Description Empty DHCP option.

Introduced 16.0.R1

Notes This element is part of a choice

hex-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)

Description DHCP option as hexadecimal string

String Length 1 to 256

Introduced 16.0.R1

Notes This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv4-option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

ipv6-option [number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options**
Description	Enter the ipv6-option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv6-option** (*number* | *keyword*)

Description ASCII string for DHCP option

String Length 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

domain-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv6-option** (*number* | *keyword*)

Description DHCP option as domain name

String Length 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

empty

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv6-option** (*number* | *keyword*)

Description Empty DHCP option.

Introduced 16.0.R1

Notes This element is part of a choice

hex-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv6-option** (*number* | *keyword*)

Description DHCP option as hexadecimal string

String Length 1 to 256

Introduced 16.0.R1

Notes This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R1
Notes	This element is part of a choice

to-server-options

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description	Enter the to-server-options context
Introduced	16.0.R1

ipv6-option [number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options**
Description	Enter the ipv6-option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options ipv6-option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options ipv6-option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

domain-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options ipv6-option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **to-server-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R1
Notes	This element is part of a choice

wpp

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string*
Description Enter the wpp context
Introduced 16.0.R1

initial

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp**
Description Enter the initial context
Introduced 16.0.R1

sla-profile *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp initial**
Description Initial SLA profile
String Length 1 to 32
Introduced 16.0.R1

sub-profile *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp initial**
Description Initial subscriber profile
String Length 1 to 32
Introduced 16.0.R1

portal

Context **configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp**
Description Enter the portal context
Introduced 16.0.R1

name *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp portal**
Description	Name for the WPP portal of the hosts
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

portal-group *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp portal**
Description	WPP portal group for this interface
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

router-instance (*keyword* | *number*)

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp portal**
Description	The virtual router instance of the WPP portal for the hosts
Default	base
Options	base
Introduced	16.0.R1
Notes	This element is part of a choice

restore-to-initial-on-disconnect *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe host** *string* **wpp**
Description	Restore initial profiles after a host has disconnected
Options	restore, no-restore
Introduced	16.0.R1

mask type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe**
Description	Enter the mask context
Introduced	16.0.R1

type *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword*

Description Matching type to identify a host

Options circuit-id, remote-id, sap-id, string, system-id, option60

Introduced 16.0.R1

Notes This element is part of a list key

prefix

Context **configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword*

Description Enter the prefix context

Introduced 16.0.R1

length *number*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword* **prefix**

Description Prefix length

Range 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword* **prefix**

Description Prefix string

String Length 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

suffix

Context **configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword*

Description Enter the suffix context

Introduced 16.0.R1

length *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword* **suffix**
Description	Suffix length
Range	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe mask type** *keyword* **suffix**
Description	Suffix string
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

match-list *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ipoe**
Description	IPoE host match type
Options	circuit-id, mac, remote-id, sap-id, service-id, string, system-id, option60, encap-tag-range, dual-stack-remote-id, derived-id, ip
Max. Elements	4
Introduced	16.0.R1
Notes	This element is ordered by user

ppp

Context	**configure subscriber-mgmt local-user-db** *string*
Description	Enter the ppp context
Introduced	16.0.R1

host [host-name] *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp**
Description	Enter the host context
Introduced	16.0.R1

[host-name] *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Host key
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

access-loop-encapsulation

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the access-loop-encapsulation context
Introduced	16.0.R1

encap-offset

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-encapsulation**
Description	Enter the encap-offset context
Introduced	16.0.R1

type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-encapsulation encap-offset**
Description	Egress encapsulation type
Options	pppoa-llc, pppoa-null, pppoeoa-llc, pppoeoa-llc-fcs, pppoeoa-llc-tagged, pppoeoa-llc-tagged-fcs, pppoeoa-null, pppoeoa-null-fcs, pppoeoa-null-tagged, pppoeoa-null-tagged-fcs, ipoa-llc, ipoa-null, ipoeoa-llc, ipoeoa-llc-fcs, ipoeoa-llc-tagged, ipoeoa-llc-tagged-fcs, ipoeoa-null, ipoeoa-null-fcs, ipoeoa-null-tagged, ipoeoa-null-tagged-fcs, pppoe, pppoe-tagged, ipoe, ipoe-tagged
Introduced	16.0.R1

rate-down *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-encapsulation**
Description	Last mile link downstream rate in the access loop
Range	1 to 100000
Units	kilobps
Introduced	16.0.R1

access-loop-information

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the access-loop-information context
Introduced	16.0.R1

circuit-id

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-information**
Description	Enter the circuit-id context
Introduced	16.0.R1

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-information circuit-id**
Description	Circuit ID as an ASCII string
String Length	1 to 63
Introduced	16.0.R1
Notes	This element is part of a choice

sap-id *boolean*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-information circuit-id**
Description	SAP ID as circuit ID
Introduced	16.0.R1
Notes	This element is part of a choice

remote-id

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-information**

Description Enter the remote-id context

Introduced 16.0.R1

ascii-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-information remote-id**

Description Remote-id as an ASCII string.

String Length 1 to 63

Introduced 16.0.R1

Notes This element is part of a choice

mac *boolean*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **access-loop-information remote-id**

Description Use MAC address as remote ID

Introduced 16.0.R1

Notes This element is part of a choice

admin-state *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Administrative state of this IPOE host

Default disable

Options enable, disable

Introduced 16.0.R1

authentication

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Enter the authentication context

Introduced 16.0.R1

gx-policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **authentication**

Description Diameter application policy

String Length 1 to 32

Introduced 16.0.R1

nasreq-auth-policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **authentication**

Description Diameter NASREQ application policy to use for authentication

String Length 1 to 32

Introduced 16.0.R1

padi-auth-policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **authentication**

Description Authentication policy name

String Length 1 to 32

Introduced 16.0.R1

pre-auth-policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **authentication**

Description Pre-authentication policy of this host

String Length 1 to 32

Introduced 16.0.R1

radius-auth-policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **authentication**

Description Host authentication policy

String Length 1 to 32

Introduced 16.0.R1

user-db *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **authentication**

Description Local user DB to use for PPP PAP/CHAP authentication

String Length 1 to 32

Introduced 16.0.R1

host-identification

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Enter the host-identification context

Introduced 16.0.R1

circuit-id

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**

Description Enter the circuit-id context

Introduced 16.0.R1

ascii-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification circuit-id**

Description Circuit ID as ASCII string

String Length 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

hex-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification circuit-id**

Description Circuit ID as hexadecimal string

String Length 1 to 256

Introduced 16.0.R1

Notes This element is part of a choice

derived-id *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**
Description	Derived ID string
String Length	1 to 255
Introduced	16.0.R1

encap-tag-range

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**
Description	Enter the encap-tag-range context
Introduced	16.0.R1

from *atm-or-vlan-encap*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification encap-tag-range**
Description	Start tag
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is mandatory

to *atm-or-vlan-encap*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification encap-tag-range**
Description	End tag
String Length	1 to 11
Introduced	16.0.R1
Notes	This element is mandatory

mac *mac-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**
Description	MAC address
Introduced	16.0.R1

remote-id

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**

Description Enter the remote-id context

Introduced 16.0.R1

ascii-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification remote-id**

Description Remote ID as ASCII string

String Length 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

hex-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification remote-id**

Description Remote ID as hexadecimal string

String Length 1 to 512

Introduced 16.0.R1

Notes This element is part of a choice

sap-id *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**

Description SAP ID

String Length 1 to 255

Introduced 16.0.R1

service-name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**

Description Service name

String Length 1 to 255

Introduced 16.0.R1

user-name

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification**

Description Enter the user-name context

Introduced 16.0.R1

format *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification user-name**

Description User name format.

Default full

Options full, no-domain, domain-only

Introduced 16.0.R1

name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **host-identification user-name**

Description Full or part of PPP user name as specified with the format.

String Length 1 to 253

Introduced 16.0.R1

Notes This element is mandatory

identification

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Enter the identification context

Introduced 16.0.R1

ancp-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**

Description ANCP string

String Length 1 to 63

Introduced 16.0.R1

category-map-name *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**
Description	Category map name
String Length	1 to 32
Introduced	16.0.R1

int-dest-id *int-dest-id*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**
Description	Intermediate destination ID
String Length	1 to 32
Introduced	16.0.R1

option-number *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**
Description	The option number used to return the strings in case the LUDB is linked to a DHCP server.
Range	1 to 254
Default	254
Introduced	16.0.R1

sla-profile-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**
Description	SLA profile string
String Length	1 to 16
Introduced	16.0.R1

spi-sharing-group-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**
Description	Group ID for SLA Profile Instance sharing per group
Range	0 to 65535
Introduced	16.0.R1

sub-profile-string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**

Description Sub profile string

String Length 1 to 16

Introduced 16.0.R1

subscriber-id *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **identification**

Description Subscriber ID

String Length 1 to 32

Introduced 16.0.R1

ipv4

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Enter the ipv4 context

Introduced 16.0.R1

address

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4**

Description Enter the address context

Introduced 16.0.R1

gi-address *keyword*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address**

Description Use gi-address to select a pool with the given scope

Options subnet-scope, pool-scope

Introduced 16.0.R1

Notes This element is part of a choice

ip-address *ipv4-unicast-address*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address**
Description IPv4 host address
Introduced 16.0.R1
Notes This element is part of a choice

pool

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address**
Description Enter the **pool** context
Introduced 16.0.R1

delimiter *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address pool**
Description Delimiter character to combine primary and secondary pool names
String Length 1
Introduced 16.0.R1
Notes This element is part of a choice

primary *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address pool**
Description Primary pool name
String Length 1 to 32
Introduced 16.0.R1
Notes This element is mandatory
This element is part of a choice

secondary *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address pool**
Description Secondary pool name
String Length 1 to 32
Introduced 16.0.R1
Notes This element is part of a choice

use-pool-from-client

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address**
Description	Enter the **use-pool-from-client** context
Introduced	16.0.R1

delimiter *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 address use-pool-from-client**
Description	Delimiter character to combine primary and secondary pool names
String Length	1
Introduced	16.0.R1
Notes	This element is part of a choice

ignore-df-bit *boolean*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4**
Description	Fragment frames if necessary, even if they have the Don't Fragment (DF) bit set in the IPv4 header.
Default	false
Introduced	16.0.R1

option [number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4**
Description	Enter the option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option for sending identification strings to DHCP client
Range	1 to 254
Options	subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

duration *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as time duration
Range	10 to 315446399
Units	seconds
Introduced	16.0.R4
Notes	This element is part of a choice

empty

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv4-address *ipv4-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as a list of IPv4 addresses
Max. Elements	4
Introduced	16.0.R4
Notes	This element is part of a choice

netbios-node-type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv4 option** (*number* | *keyword*)
Description	DHCP option as NetBIOS node type
Options	b-node, p-node, m-node, h-node
Introduced	16.0.R4
Notes	This element is part of a choice

ipv6

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the ipv6 context
Introduced	16.0.R1

address *ipv6-unicast-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**
Description	IPv6 address of this host
Introduced	16.0.R1

address-pool *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**
Description	IPv6 address pool name
String Length	1 to 32
Introduced	16.0.R1

delegated-prefix *ipv6-unicast-prefix*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**

Description IPv6 delegated prefix of this host

Introduced 16.0.R1

delegated-prefix-length *number*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**

Description Delegated prefix length

Range 48 to 64

Introduced 16.0.R1

delegated-prefix-pool *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**

Description Delegated prefix pool

String Length 1 to 32

Introduced 16.0.R1

force-ipv6cp *boolean*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**

Description forces ipv6 control protocol.

Default false

Introduced 16.0.R1

option [number] (*number* | *keyword*)

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**

Description Enter the option context

Introduced 16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 option** (*number* | *keyword*)
Description	The number of the DHCPv6 option.
Range	23
Options	dns-server
Introduced	16.0.R5
Notes	This element is part of a list key

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R5
Notes	This element is part of a choice

router-advertisement-policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**
Description	IPv6 router advertisement policy
String Length	1 to 32
Introduced	16.0.R1

slaac-prefix *ipv6-unicast-prefix*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**
Description	IPv6 SLAAC prefix of this host
Introduced	16.0.R1

slaac-prefix-pool *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**
Description	IPv6 SLAAC prefix pool of this host
String Length	1 to 32
Introduced	16.0.R1

timers

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6**
Description	Enter the timers context
Introduced	16.0.R1

preferred-lifetime (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 timers**
Description	Time for a lease to remain preferred
Range	300 to 315446399
Units	seconds
Options	infinite
Introduced	16.0.R1

rebind *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 timers**
Description	Rebind timer (T2)
Range	0 to 1209600
Units	seconds
Introduced	16.0.R1

renew *number*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 timers**
Description Renew timer (T1)
Range 0 to 604800
Units seconds
Introduced 16.0.R1

valid-lifetime (*number* | *keyword*)

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **ipv6 timers**
Description Time for a lease to remain valid
Range 300 to 315446399
Units seconds
Options infinite
Introduced 16.0.R1

l2tp

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description Enter the l2tp context
Introduced 16.0.R1

group

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **l2tp**
Description Enter the group context
Introduced 16.0.R1

name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **l2tp group**
Description Tunnel group name
String Length 1 to 63
Introduced 16.0.R1
Notes This element is mandatory

service-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **l2tp group**
Description	Service-id for group.
Range	1 to 2147483647
Introduced	16.0.R1

lns-interface

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the lns-interface context
Introduced	16.0.R1

name *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **lns-interface**
Description	IP interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

service-id *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **lns-interface**
Description	Service ID
Range	1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381
Introduced	16.0.R1
Notes	This element is mandatory

mld-import [policy-name] *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the mld-import context
Max. Elements	14
Introduced	16.0.R1

[policy-name] *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **mld-import** *string*
Description	MLD import policy for this host
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

msap-defaults

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the msap-defaults context
Introduced	16.0.R1

group-interface

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **msap-defaults**
Description	Enter the group-interface context
Introduced	16.0.R1

name *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **msap-defaults group-interface**
Description	IP interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is mandatory

prefix *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **msap-defaults group-interface**
Description	prefix.
Options	port-id
Introduced	16.0.R1
Notes	This element is part of a choice

suffix *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **msap-defaults group-interface**
Description	Suffix for the group interface
Options	port-id
Introduced	16.0.R1
Notes	This element is part of a choice

policy *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **msap-defaults**
Description	MSAP policy
String Length	1 to 32
Introduced	16.0.R1

service *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **msap-defaults**
Description	The service id.
Range	1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381
Introduced	16.0.R1

pado-delay *number*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Delay timeout before sending a PADO
Range	1 to 30
Units	seconds
Introduced	16.0.R1

password

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the password context
Introduced	16.0.R1

chap *encrypted-leaf*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **password**
Description	CHAP protocol
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is part of a choice

ignore

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **password**
Description	Ignore.
Introduced	16.0.R1
Notes	This element is part of a choice

pap *encrypted-leaf*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **password**
Description	PAP protocol.
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is part of a choice

radius-accounting-policy

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string*
Description	Enter the radius-accounting-policy context
Introduced	16.0.R1

duplicate *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **radius-accounting-policy**
Description	RADIUS accounting policy for generating duplicate accounting information
String Length	1 to 32
Introduced	16.0.R1

name *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **radius-accounting-policy**

Description RADIUS accounting policy for generating accounting information

String Length 1 to 32

Introduced 16.0.R1

retail-service-id *number*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Configure the retail service-id

Range 1 to 2147483647 | 2147483648 | 2147483649 | 2147483650 | 2147483651 to 2147483690 | 2147483691 to 2148007980 | 2148007981 to 2148012076 | 2148012077 to 2148016172 | 2148016173 to 2148278316 | 2148278317 | 2148278318 to 2148278381

Introduced 16.0.R4

rip-policy *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description RIP policy

String Length 1 to 32

Introduced 16.0.R1

steering-profile *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Steering profile

String Length 1 to 32

Introduced 16.0.R1

to-client-options

Context **configure subscriber-mgmt local-user-db** *string* **ppp host** *string*

Description Enter the to-client-options context

Introduced 16.0.R1

ipv6-option [number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options**
Description	Enter the ipv6-option context
Introduced	16.0.R1

[number] (*number* | *keyword*)

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	DHCPv6 option for sending identification strings to DHCP client
Range	1 to 65535
Options	dns-server, domain-name
Introduced	16.0.R1
Notes	This element is part of a list key

ascii-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	ASCII string for DHCP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

domain-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as domain name
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	Empty DHCP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as hexadecimal string
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6-address *ipv6-address*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp host** *string* **to-client-options ipv6-option** (*number* | *keyword*)
Description	DHCP option as a list of IPv6 addresses
Max. Elements	4
Introduced	16.0.R1
Notes	This element is part of a choice

mask type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp**
Description	Enter the mask context
Introduced	16.0.R1

type *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword*
Description	Matching type to identify a host
Options	circuit-id, mac, remote-id, user-name, service-name, sap-id
Introduced	16.0.R1
Notes	This element is part of a list key

prefix

Context **configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword*

Description Enter the prefix context

Introduced 16.0.R1

length *number*

Context **configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword* **prefix**

Description Prefix length

Range 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context **configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword* **prefix**

Description Prefix string

String Length 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

suffix

Context **configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword*

Description Enter the suffix context

Introduced 16.0.R1

length *number*

Context **configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword* **suffix**

Description Suffix length

Range 1 to 127

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp mask type** *keyword* **suffix**
Description	Suffix string
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

match-list *keyword*

Context	**configure subscriber-mgmt local-user-db** *string* **ppp**
Description	PPP host match criteria
Options	circuit-id, mac, remote-id, user-name, service-name, sap-id, encap-tag-range, derived-id
Max. Elements	3
Introduced	16.0.R1
Notes	This element is ordered by user

mld-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the mld-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress-rate-modify

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Enter the egress-rate-modify context
Introduced	16.0.R1

agg-rate

Context	**configure subscriber-mgmt mld-policy** *string* **egress-rate-modify**
Description	Aggregate rate that applies for modification
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler *string*

Context	**configure subscriber-mgmt mld-policy** *string* **egress-rate-modify**
Description	Scheduler to be applied for rate modification
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

fast-leave *boolean*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Enable fast leave
Default	true
Introduced	16.0.R1

import-policy *string*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Import policy to filter MLD packets
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

maximum-number-group-sources *number*

Context **configure subscriber-mgmt mld-policy** *string*

Description Maximum number of group sources

Range 1 to 32000

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure subscriber-mgmt mld-policy** *string*

Description Max groups number for which IGMP can have local receiver information based on received IGMP reports

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure subscriber-mgmt mld-policy** *string*

Description Maximum number of sources that are allowed per group

Range 1 to 1000

Introduced 16.0.R1

query-interval *number*

Context **configure subscriber-mgmt mld-policy** *string*

Description Time between two consecutive host-query messages

Range 2 to 1024

Introduced 16.0.R1

query-last-member-interval *number*

Context **configure subscriber-mgmt mld-policy** *string*

Description Time between group-specific query messages

Range 1 to 1023

Introduced 16.0.R1

query-response-interval *number*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Introduced	16.0.R1

redirection-policy *string*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Policy for redirection.
Reference	configure **policy-options policy-statement** *string*
Introduced	16.0.R1

replication *keyword*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Specifies where outgoing traffic will be replicated.
Default	per-sap
Options	per-sap, per-host
Introduced	16.0.R1

router-alert-check *boolean*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Enable IGMP router alert check option
Default	true
Introduced	16.0.R1

static

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Enter the static context
Introduced	16.0.R1

group [group-address] *ipv6-multicast-address*

Context	**configure subscriber-mgmt mld-policy** *string* **static**
Description	Enter the group context
Introduced	16.0.R1

[group-address] *ipv6-multicast-address*

Context	**configure subscriber-mgmt mld-policy** *string* **static group** *ipv6-multicast-address*
Description	Group address of multicast channel
Introduced	16.0.R1
Notes	This element is part of a list key

source [source-address] *ipv6-unicast-address*

Context	**configure subscriber-mgmt mld-policy** *string* **static group** *ipv6-multicast-address*
Description	Enter the **source** context
Introduced	16.0.R3

[source-address] *ipv6-unicast-address*

Context	**configure subscriber-mgmt mld-policy** *string* **static group** *ipv6-multicast-address* **source** *ipv6-unicast-address*
Description	Source address of multicast channel.
Introduced	16.0.R3
Notes	This element is part of a choice This element is part of a list key

starg

Context	**configure subscriber-mgmt mld-policy** *string* **static group** *ipv6-multicast-address*
Description	any source address (*,G)
Introduced	16.0.R3
Notes	This element is part of a choice

use-multicast-destination-mac *boolean*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	Use multicast destination mac address for outgoing traffic.
Default	false
Introduced	16.0.R4

version *keyword*

Context	**configure subscriber-mgmt mld-policy** *string*
Description	MLD protocol version
Default	2
Options	1, 2
Introduced	16.0.R1

msap-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the msap-policy context
Max. Elements	256
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Managed SAP policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

cpu-protection

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Enter the cpu-protection context
Introduced	16.0.R1

ip-src-monitoring

Context	**configure subscriber-mgmt msap-policy** *string* **cpu-protection**
Description	Apply the CPU protection policy per-source-rate on IP sources.
Introduced	16.0.R3
Notes	This element is part of a choice

mac-monitoring

Context	**configure subscriber-mgmt msap-policy** *string* **cpu-protection**
Description	Apply the CPU protection policy per-source-rate on MAC sources.
Introduced	16.0.R3
Notes	This element is part of a choice

policy-id *string*

Context	**configure subscriber-mgmt msap-policy** *string* **cpu-protection**
Description	CPM protection policy
Reference	configure **system security cpu-protection policy** *number*
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

dist-cpu-protection *string*

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Distributed CPU protection policy
String Length	1 to 32
Introduced	16.0.R1

ies-vprn-only-sap-parameters

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Enter the ies-vprn-only-sap-parameters context
Introduced	16.0.R1

anti-spoof *keyword*

Context	**configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters**
Description	Anti-spoof filtering for the MSAP
Default	source-ip-and-mac-addr
Options	source-ip-and-mac-addr, next-hop-ip-and-mac-addr
Introduced	16.0.R1

egress

Context	**configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters**
Description	Enter the egress context
Introduced	16.0.R1

qos

Context	**configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters egress**
Description	Enter the qos context
Introduced	16.0.R1

policy-name *string*

Context	**configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters egress qos**
Description	SAP-egress QoS policy
Reference	configure **qos sap-egress** *qos-policy-name*
Introduced	16.0.R1

ingress

Context	**configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters**
Description	Enter the ingress context
Introduced	16.0.R1

qos

Context **configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters ingress**

Description Enter the qos context

Introduced 16.0.R4

policy-name *string*

Context **configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters ingress qos**

Description Configure the SAP-ingress QoS policy.

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R4

queuing-type *keyword*

Context **configure subscriber-mgmt msap-policy** *string* **ies-vprn-only-sap-parameters ingress qos**

Description Configure the ingress queuing type.

Default shared

Options shared, service

Introduced 16.0.R4

igmp-host-tracking

Context **configure subscriber-mgmt msap-policy** *string*

Description Enter the igmp-host-tracking context

Introduced 16.0.R1

expiry-time *number*

Context **configure subscriber-mgmt msap-policy** *string* **igmp-host-tracking**

Description Time during which the system continues to track inactive hosts

Range 1 to 65535

Units seconds

Introduced 16.0.R1

import-policy *string*

Context **configure subscriber-mgmt msap-policy** *string* **igmp-host-tracking**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-group-sources *number*

Context **configure subscriber-mgmt msap-policy** *string* **igmp-host-tracking**

Description Maximum number of multicast groups to be tracked per group

Range 1 to 32000

Introduced 16.0.R1

maximum-number-groups *number*

Context **configure subscriber-mgmt msap-policy** *string* **igmp-host-tracking**

Description Maximum number of multicast groups to be tracked

Range 1 to 16000

Introduced 16.0.R1

maximum-number-sources *number*

Context **configure subscriber-mgmt msap-policy** *string* **igmp-host-tracking**

Description Maximum number of multicast sources to be tracked

Range 1 to 1000

Introduced 16.0.R1

lag-link-map-profile *number*

Context **configure subscriber-mgmt msap-policy** *string*

Description Map profile for LAG link

Range 1 to 64

Introduced 16.0.R1

sticky-msaps *boolean*

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Prevent MSAPs associated with specified MSAP policy from being deleted without manual clear command
Default	false
Introduced	16.0.R1

sub-sla-mgmt

Context	**configure subscriber-mgmt msap-policy** *string*
Description	Enter the sub-sla-mgmt context
Introduced	16.0.R1

defaults

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt**
Description	Enter the defaults context
Introduced	16.0.R1

int-dest-id

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults**
Description	Enter the int-dest-id context
Introduced	16.0.R1

string *int-dest-id*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults int-dest-id**
Description	String to be used as the int-dest-id
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

top-q-tag

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults int-dest-id**
Description	Derive string based on top most delineating Dot1Q tag from SAP's encapsulation
Introduced	16.0.R1
Notes	This element is part of a choice

sla-profile *string*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults**
Description	Default SLA profile
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1

sub-profile *string*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults**
Description	Subscriber profile
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1

subscriber-id

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults**
Description	Enter the subscriber-id context
Introduced	16.0.R1

auto-id

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults subscriber-id**
Description	Autogenerated sub-id as default sub-id
Introduced	16.0.R1
Notes	This element is part of a choice

sap-id

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults subscriber-id**
Description	SAP-id as default sub-id
Introduced	16.0.R1
Notes	This element is part of a choice

string *subscriber-id*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt defaults subscriber-id**
Description	String to be used as default sub-id
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

single-sub-parameters

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt**
Description	Enter the single-sub-parameters context
Introduced	16.0.R1

non-sub-traffic-profiles

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt single-sub-parameters**
Description	Enter the non-sub-traffic-profiles context
Introduced	16.0.R1

sla-profile *string*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt single-sub-parameters non-sub-traffic-profiles**
Description	SLA profile name
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

sub-profile *string*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt single-sub-parameters non-sub-traffic-profiles**
Description	Subscriber profile
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

subscriber-id *subscriber-id*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt single-sub-parameters non-sub-traffic-profiles**
Description	Subscriber identification string
String Length	1 to 32
Introduced	16.0.R1

profiled-traffic-only *boolean*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt single-sub-parameters**
Description	Enable/disable profiled-traffic-only.
Default	false
Introduced	16.0.R1

sub-ident-policy *string*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt**
Description	Configure subscriber identification policy
Reference	configure **subscriber-mgmt sub-ident-policy** *external-named-item*
Introduced	16.0.R1

subscriber-limit *sap-subscriber-limit*

Context	**configure subscriber-mgmt msap-policy** *string* **sub-sla-mgmt**
Description	Maximum subscribers on this SAP
Default	1
Introduced	16.0.R1

vpls-only-sap-parameters

Context **configure subscriber-mgmt msap-policy** *string*
Description Enter the vpls-only-sap-parameters context
Introduced 16.0.R1

arp-host

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**
Description Enter the arp-host context
Introduced 16.0.R1

host-limit *sap-host-limit*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters arp-host**
Description Maximum number of ARP hosts
Range 1 to 131071
Default 1
Introduced 16.0.R1

min-auth-interval *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters arp-host**
Description The minimum authentication interval.
Range 1 to 6000
Default 15
Units minutes
Introduced 16.0.R1

arp-reply-agent *keyword*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**
Description Enable arp-reply-agent function
Options true, with-subscr-ident
Introduced 16.0.R1

dhcp

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**

Description Enter the dhcp context

Introduced 16.0.R1

lease-populate *sap-lease-state-limit*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp**

Description Maximum number of DHCPv4 leases per managed SAP

Range 1 to 131071

Default 1

Introduced 16.0.R1

option-82

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp**

Description Enter the option-82 context

Introduced 16.0.R1

action *keyword*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82**

Description DHCP relay forwarding policy action

Default keep

Options replace, drop, keep

Introduced 16.0.R1

circuit-id *keyword*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82**

Description Circuit ID suboption of the IPOE relay

Default ascii-tuple

Options none, ascii-tuple, vlan-ascii-tuple

Introduced 16.0.R1

remote-id

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82**

Description Enter the remote-id context

Introduced 16.0.R1

mac

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 remote-id**

Description MAC address of the remote end that is encoded in the suboption

Introduced 16.0.R1

Notes This element is part of a choice

string *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 remote-id**

Description String to encode in the suboption

String Length 1 to 32

Introduced 16.0.R1

Notes This element is part of a choice

vendor-specific-option

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82**

Description Enter the vendor-specific-option context

Introduced 16.0.R1

client-mac-address *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 vendor-specific-option**

Description Enable/disable sending of the MAC address in the Nokia vendor specific suboption of the IPOE Relay packet.

Default false

Introduced 16.0.R1

sap-id *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 vendor-specific-option**

Description Enable/disable sending of the SAP-id in the Nokia vendor specific suboption of the IPOE Relay packet.

Default false

Introduced 16.0.R1

service-id *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 vendor-specific-option**

Description Enable/disable sending of the service-id in the Nokia vendor specific suboption of the IPOE Relay packet.

Default false

Introduced 16.0.R1

string *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 vendor-specific-option**

Description Specifies the string in the Nokia vendor specific suboption of the IPOE Relay packet.

String Length 1 to 32

Introduced 16.0.R1

system-id *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp option-82 vendor-specific-option**

Description Enable/disable sending of the system-id in the Nokia vendor specific suboption of the IPOE Relay packet.

Default false

Introduced 16.0.R1

proxy-server

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp**

Description Enter the proxy-server context

Introduced 16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp proxy-server**

Description Administrative state of DHCP proxy

Default disable

Options enable, disable

Introduced 16.0.R1

emulated-server *ipv4-unicast-address*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp proxy-server**

Description IP address used as the DHCP server address in the context of this service

Introduced 16.0.R1

lease-time

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp proxy-server**

Description Enter the lease-time context

Introduced 16.0.R1

radius-override *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp proxy-server lease-time**

Description Use lease time information provided by RADIUS server

Default false

Introduced 16.0.R1

value *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters dhcp proxy-server lease-time**

Description DHCP lease time

Range 300 to 315446399

Units seconds

Introduced 16.0.R1

egress

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**

Description Enter the egress context

Introduced 16.0.R1

qos

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters egress**

Description Enter the qos context

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters egress qos**

Description SAP-egress QoS policy

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

igmp-snooping

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**

Description Enter the igmp-snooping context

Introduced 16.0.R1

fast-leave *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description Allow IGMP fast leave processing

Default false

Introduced 16.0.R1

import-policy *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description Import policy that filters IGMP packets

Reference configure **policy-options policy-statement** *string*

Introduced 16.0.R1

maximum-number-groups (*keyword* | *number*)

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description Maximum number of multicast groups

Range 1 to 16000

Default unlimited

Options unlimited

Introduced 16.0.R1

mcac

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description Enter the mcac context

Introduced 16.0.R1

bandwidth

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac**

Description Enter the bandwidth context

Introduced 16.0.R1

mandatory (*number* | *keyword*)

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac bandwidth**

Description Pre-reserved bandwidth for all mandatory channels.

Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac bandwidth**

Description Maximum allowed bandwidth.

Introduced 16.0.R1

interface-policy *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac**

Description Multicast CAC interface-policy name.

Reference configure **mcac interface-policy** *string*

Introduced 16.0.R1

mc-constraints

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac**

Description Enter the mc-constraints context

Introduced 16.0.R1

level [level-id] *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints**

Description Enter the level context

Introduced 16.0.R1

[level-id] *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints level** *number*

Description Bandwidth level ID for a multicast CAC constraint

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

bandwidth *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints level** *number*

Description Bandwidth available for this level

Default 1

Introduced 16.0.R1

number-down [number-lag-port-down] *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints**

Description Enter the number-down context

Introduced 16.0.R1

[number-lag-port-down] *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints number-down** *number*

Description Number of lag ports down

Range 1 to 64

Introduced 16.0.R1

Notes This element is part of a list key

level *number*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints number-down** *number*

Description Level to be associated with this number of lag ports that are down

Range 1 to 8

Introduced 16.0.R1

Notes This element is mandatory

use-lag-port-weight *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac mc-constraints**

Description Use LAG port weight while calculating Multicast CAC constraints

Default false

Introduced 16.0.R1

policy *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mcac**

Description Multicast CAC policy name

Reference configure **mcac policy** *string*

Introduced 16.0.R1

mvr

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description Enter the mvr context

Introduced 16.0.R1

from-vpls *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping mvr**

Description MVR VPLS from which the multicast channels are taken

Reference configure **service vpls** *service-name*

Introduced 16.0.R1

query-interval *number*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**
Description	Time between two consecutive host-query messages
Range	2 to 1024
Default	125
Units	seconds
Introduced	16.0.R1

query-last-member-interval *number*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**
Description	Time between group-specific query messages
Range	1 to 50
Default	10
Units	deciseconds
Introduced	16.0.R1

query-response-interval *number*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**
Description	Time to wait for a response to the host-query messages
Range	1 to 1023
Default	10
Units	seconds
Introduced	16.0.R1

robust-count *number*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**
Description	Number of retries to cope with message loss
Range	2 to 7
Default	2
Introduced	16.0.R1

send-queries *boolean*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description Generate IGMP general queries

Default false

Introduced 16.0.R1

version *keyword*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters igmp-snooping**

Description IGMP version

Default 3

Options 1, 2, 3

Introduced 16.0.R1

ingress

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**

Description Enter the ingress context

Introduced 16.0.R1

qos

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters ingress**

Description Enter the qos context

Introduced 16.0.R4

policy-name *string*

Context **configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters ingress qos**

Description Configure the SAP-ingress QoS policy.

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R4

queuing-type *keyword*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters ingress qos**
Description	Configure the ingress queuing type.
Default	multipoint-shared
Options	multipoint-shared, service
Introduced	16.0.R4

mac-da-hashing *boolean*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**
Description	Include hashing on MAC DA ISO subscriber ID
Default	false
Introduced	16.0.R1

split-horizon-group *string*

Context	**configure subscriber-mgmt msap-policy** *string* **vpls-only-sap-parameters**
Description	Name of the split horizon group for the MSAP
String Length	1 to 32
Introduced	16.0.R1

pim-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the pim-policy context
Max. Elements	1
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt pim-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt pim-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ppp-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the ppp-policy context
Max. Elements	256
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

allow-same-circuit-id-for-dhcp *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Allow multiple PPPoE sessions with the same MAC address and circuit ID for a specific SAP
Default	false
Introduced	16.0.R1

cookies *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Enable/disable the use of AC-Cookie tags.
Default	true
Introduced	16.0.R1

default-pap-password *encrypted-leaf*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Default PAP password to be used when the PPP client does not provide a password
String Length	1 to 114
Introduced	16.0.R1

default-user-name *string*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Default PPP username to be used when the PPP client does not provide a username
String Length	1 to 253
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

force-ppp-mtu-gt-1492 *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Force the PPPoE MTU size to go above 1492 without RFC 4638.
Default	false
Introduced	16.0.R1

ipcp-subnet-negotiation *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Allow IPCP subnet negotiation for PPPoE hosts
Default	false
Introduced	16.0.R1

keepalive

Context **configure subscriber-mgmt ppp-policy** *string*

Description Enter the keepalive context

Introduced 16.0.R1

hold-up-multiplier *number*

Context **configure subscriber-mgmt ppp-policy** *string* **keepalive**

Description PPP keepalive multiplier

Range 1 to 5

Default 3

Introduced 16.0.R1

interval *number*

Context **configure subscriber-mgmt ppp-policy** *string* **keepalive**

Description PPP keepalive interval

Range 4 to 300

Default 30

Units seconds

Introduced 16.0.R1

lcp-ignore-magic-numbers *boolean*

Context **configure subscriber-mgmt ppp-policy** *string*

Description Magic-Number field in LCP Echo-Request and LCP Echo-Reply messages that are checked

Default false

Introduced 16.0.R1

max-sessions-per-mac *number*

Context **configure subscriber-mgmt ppp-policy** *string*

Description Maximum sessions per MAC

Range 1 to 8191

Default 1

Introduced 16.0.R1

mlppp

Context **configure subscriber-mgmt ppp-policy** *string*

Description Enter the mlppp context

Introduced 16.0.R1

accept-mrru *boolean*

Context **configure subscriber-mgmt ppp-policy** *string* **mlppp**

Description Accept multilink MRRU LCP option

Default false

Introduced 16.0.R1

endpoint

Context **configure subscriber-mgmt ppp-policy** *string* **mlppp**

Description Enter the endpoint context

Introduced 16.0.R1

ip (*string* | *keyword*)

Context **configure subscriber-mgmt ppp-policy** *string* **mlppp endpoint**

Description Endpoint ID as an IP address

Introduced 16.0.R1

Notes This element is part of a choice

mac (*string* | *keyword*)

Context **configure subscriber-mgmt ppp-policy** *string* **mlppp endpoint**

Description Endpoint ID as a MAC address

Introduced 16.0.R1

Notes This element is part of a choice

short-sequence-numbers *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string* **mlppp**
Description	Request a peer to send short sequence numbers
Default	false
Introduced	16.0.R1

pado-ac-name *string*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Configure the Access-Concentrator-Name to send with a PADO.
String Length	1 to 128
Introduced	16.0.R1

pado-delay *number*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Delay timeout before sending a PADO
Range	1 to 30
Units	deciseconds
Introduced	16.0.R1

ppp-authentication *keyword*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	PPP authentication protocol to negotiate
Default	pref-chap
Options	pap, chap, pref-chap, pref-pap
Introduced	16.0.R1

ppp-chap-challenge-length

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Enter the ppp-chap-challenge-length context
Introduced	16.0.R1

max *number*

Context **configure subscriber-mgmt ppp-policy** *string* **ppp-chap-challenge-length**

Description Maximum length for the PPP CHAP challenge

Range 8 to 64

Default 64

Introduced 16.0.R1

min *number*

Context **configure subscriber-mgmt ppp-policy** *string* **ppp-chap-challenge-length**

Description Minimum length for the PPP CHAP challenge

Range 8 to 64

Default 32

Introduced 16.0.R1

ppp-initial-delay *boolean*

Context **configure subscriber-mgmt ppp-policy** *string*

Description Select delay timeout before starting the PPP stack

Default false

Introduced 16.0.R1

ppp-mtu *number*

Context **configure subscriber-mgmt ppp-policy** *string*

Description Maximum PPP MTU size

Range 512 to 9212

Introduced 16.0.R1

ppp-options

Context **configure subscriber-mgmt ppp-policy** *string*

Description Enter the ppp-options context

Introduced 16.0.R1

custom-option protocol *keyword* **option-number** *number*

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options**
Description	Enter the custom-option context
Introduced	16.0.R1

protocol *keyword*

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options custom-option protocol** *keyword* **option-number** *number*
Description	Protocol for the custom PPP option
Options	lcp, ipcp, ipv6cp
Introduced	16.0.R1
Notes	This element is part of a list key

option-number *number*

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options custom-option protocol** *keyword* **option-number** *number*
Description	PPP option number
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv4-address*

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options custom-option protocol** *keyword* **option-number** *number*
Description	IP address for the custom PPP option
Introduced	16.0.R1
Notes	This element is part of a choice

ascii-string *string*

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options custom-option protocol** *keyword* **option-number** *number*
Description	ASCII string for the customer PPP option
String Length	1 to 127
Introduced	16.0.R1
Notes	This element is part of a choice

empty

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options custom-option protocol** *keyword* **option-number** *number*
Description	Configure an empty PPP option.
Introduced	16.0.R1
Notes	This element is part of a choice

hex-string *string*

Context	**configure subscriber-mgmt ppp-policy** *string* **ppp-options custom-option protocol** *keyword* **option-number** *number*
Description	Hexadecimal string for the custom PPP option
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a choice

re-establish-session *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Reconnect and override an existing session
Default	false
Introduced	16.0.R1

reject-unconfigured-ncp *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Enable/disable reject unconfigured NCP.
Default	false
Introduced	16.0.R1

reply-on-padt *boolean*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Enable/disable reply on PADT packets.
Default	false
Introduced	16.0.R1

session-timeout *number*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Session timeout interval
Range	1 to 31104000
Units	seconds
Introduced	16.0.R1

unique-sid *keyword*

Context	**configure subscriber-mgmt ppp-policy** *string*
Description	Mode that the session-ids is allocated
Default	per-sap-mac
Options	per-sap, per-sap-mac, per-msap
Introduced	16.0.R1

pppoe-client-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the pppoe-client-policy context
Max. Elements	256
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt pppoe-client-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt pppoe-client-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

keepalive

Context	**configure subscriber-mgmt pppoe-client-policy** *string*
Description	Enter the keepalive context
Introduced	16.0.R1

hold-up-multiplier *number*

Context	**configure subscriber-mgmt pppoe-client-policy** *string* **keepalive**
Description	PPPoE keepalive multiplier
Range	1 to 5
Default	3
Introduced	16.0.R1

interval *number*

Context	**configure subscriber-mgmt pppoe-client-policy** *string* **keepalive**
Description	PPPoE keepalive interval
Range	10 to 300
Default	30
Units	seconds
Introduced	16.0.R1

mru *number*

Context	**configure subscriber-mgmt pppoe-client-policy** *string*
Description	PPPoE MRU
Range	512 to 9154
Default	1492
Introduced	16.0.R1

mtu *number*

Context **configure subscriber-mgmt pppoe-client-policy** *string*
Description PPPoE MTU
Range 512 to 9154
Default 1492
Introduced 16.0.R1

python-policy *string*

Context **configure subscriber-mgmt pppoe-client-policy** *string*
Description Python policy to be applied to all messages in the PPPoE client policy
Reference configure **python python-policy** *string*
Introduced 16.0.R1

restart-backoff

Context **configure subscriber-mgmt pppoe-client-policy** *string*
Description Enter the restart-backoff context
Introduced 16.0.R1

initial-time *number*

Context **configure subscriber-mgmt pppoe-client-policy** *string* **restart-backoff**
Description Initial backoff time
Range 10 to 3600
Default 30
Units seconds
Introduced 16.0.R1

max-time *number*

Context **configure subscriber-mgmt pppoe-client-policy** *string* **restart-backoff**
Description Maximum backoff time
Range 10 to 3600
Default 600
Units seconds
Introduced 16.0.R1

stack

Context	**configure subscriber-mgmt pppoe-client-policy** *string*
Description	Enter the stack context
Introduced	16.0.R1

ipv4 *boolean*

Context	**configure subscriber-mgmt pppoe-client-policy** *string* **stack**
Description	Start IPCP to retrieve an IPv4 address
Default	true
Introduced	16.0.R1

ipv6-slaac *boolean*

Context	**configure subscriber-mgmt pppoe-client-policy** *string* **stack**
Description	Start IPv6CP and use SLAAC to retrieve an IPv6 prefix
Default	false
Introduced	16.0.R1

radius-accounting-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the radius-accounting-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

acct-tunnel-connection-fmt *ascii-specification*

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Configure the accounting tunnel connection ascii-specification.
String Length	1 to 253
Default	%n
Introduced	16.0.R1

custom-record

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Enter the custom-record context
Introduced	16.0.R1

override-counter [id] *number*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record**
Description	Enter the override-counter context
Introduced	16.0.R1

[id] *number*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number*
Description	Identification of a custom-record HSMDA override counter
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

e-counters

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number*
Description	Enter the e-counters context
Introduced	16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the in-profile octets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the in-profile packets discarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

out-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the out-profile octets discarded count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the out-profile packets discarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **e-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

i-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number*

Description Enter the i-counters context

Introduced 16.0.R1

all-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the all octets offered count

Default false

Introduced 16.0.R1

all-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include all packets offered count

Default false

Introduced 16.0.R1

high-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the high octets discarded count

Default false

Introduced 16.0.R1

high-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the high packets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

low-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the low octets discarded count

Default false

Introduced 16.0.R1

low-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the low packets discarded count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number* **i-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

queue [id] *number*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record**

Description Enter the queue context

Introduced 16.0.R1

[id] *number*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number*

Description Custom record queue ID

Range 1 to 32

Introduced 16.0.R1

Notes This element is part of a list key

e-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number*

Description Enter the e-counters context

Introduced 16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the in-profile octets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the in-profile packets discarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

out-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the out-profile octets discarded count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the out-profile packets discarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **e-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

i-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number*

Description Enter the i-counters context

Introduced 16.0.R1

all-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the all octets offered count

Default false

Introduced 16.0.R1

all-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include all packets offered count

Default false

Introduced 16.0.R1

high-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the high octets discarded count

Default false

Introduced 16.0.R1

high-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the high octets offered count

Default false

Introduced 16.0.R1

high-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the high packets discarded count

Default false

Introduced 16.0.R1

high-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the high packets offered count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

low-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the low octets discarded count

Default false

Introduced 16.0.R1

low-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the low octets offered count

Default false

Introduced 16.0.R1

low-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the low packets discarded count

Default false

Introduced 16.0.R1

low-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the low packets offered count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

uncoloured-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the uncolored octets offered count

Default false

Introduced 16.0.R1

uncoloured-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number* **i-counters**

Description Include the uncolored packets offered count

Default false

Introduced 16.0.R1

ref-override-counter

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record**

Description Enter the ref-override-counter context

Introduced 16.0.R1

all

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter**

Description Override counters that are referenced

Introduced 16.0.R1

Notes This element is part of a choice

e-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter**

Description Enter the e-counters context

Introduced 16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the in-profile octets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the in-profile packets discarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

out-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the out-profile octets discarded count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the out-profile packets discarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter e-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

i-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter**

Description Enter the i-counters context

Introduced 16.0.R1

all-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**

Description Include the all octets offered count

Default false

Introduced 16.0.R1

all-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**

Description Include all packets offered count

Default false

Introduced 16.0.R1

high-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**

Description Include the high octets discarded count

Default false

Introduced 16.0.R1

high-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**

Description Include the high packets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

low-octets-discarded-count *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**
Description	Include the low octets discarded count
Default	false
Introduced	16.0.R1

low-packets-discarded-count *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**
Description	Include the low packets discarded count
Default	false
Introduced	16.0.R1

out-profile-octets-forwarded-count *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**
Description	Include the out-of-profile octets forwarded count
Default	false
Introduced	16.0.R1

out-profile-packets-forwarded-count *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter i-counters**
Description	Include the out-of-profile packets forwarded count
Default	false
Introduced	16.0.R1

id *string*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-override-counter**

Description Override counter identity

Reference configure **subscriber-mgmt radius-accounting-policy** *string* **custom-record override-counter** *number*

Introduced 16.0.R1

Notes This element is part of a choice

ref-queue

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record**

Description Enter the ref-queue context

Introduced 16.0.R1

all

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue**

Description All referenced queues

Introduced 16.0.R1

Notes This element is part of a choice

e-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue**

Description Enter the e-counters context

Introduced 16.0.R1

in-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the in-profile octets discarded count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the in-profile packets discarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

out-profile-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the out-profile octets discarded count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the out-profile packets discarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue e-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

i-counters

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue**

Description Enter the i-counters context

Introduced 16.0.R1

all-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the all octets offered count

Default false

Introduced 16.0.R1

all-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include all packets offered count

Default false

Introduced 16.0.R1

high-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the high octets discarded count

Default false

Introduced 16.0.R1

high-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the high octets offered count

Default false

Introduced 16.0.R1

high-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the high packets discarded count

Default false

Introduced 16.0.R1

high-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the high packets offered count

Default false

Introduced 16.0.R1

in-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the in-profile octets forwarded count

Default false

Introduced 16.0.R1

in-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the in-profile packets forwarded count

Default false

Introduced 16.0.R1

low-octets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the low octets discarded count

Default false

Introduced 16.0.R1

low-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the low octets offered count

Default false

Introduced 16.0.R1

low-packets-discarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the low packets discarded count

Default false

Introduced 16.0.R1

low-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the low packets offered count

Default false

Introduced 16.0.R1

out-profile-octets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the out-of-profile octets forwarded count

Default false

Introduced 16.0.R1

out-profile-packets-forwarded-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the out-of-profile packets forwarded count

Default false

Introduced 16.0.R1

uncoloured-octets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the uncolored octets offered count

Default false

Introduced 16.0.R1

uncoloured-packets-offered-count *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue i-counters**

Description Include the uncolored packets offered count

Default false

Introduced 16.0.R1

id *string*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record ref-queue**
Description	Queue ID
Reference	configure **subscriber-mgmt radius-accounting-policy** *string* **custom-record queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

significant-change *number*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **custom-record**
Description	Significant change required to generate the record
Range	0 to max
Introduced	16.0.R1

delay-start-time *number*

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Accounting start delay
Range	1 to 10
Units	seconds
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

host-accounting

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Enter the host-accounting context
Introduced	16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **host-accounting**
Description Administrative state of per-host accounting
Default disable
Options enable, disable
Introduced 16.0.R1

interim-update *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **host-accounting**
Description Allow interim-update accounting messages to be sent
Default false
Introduced 16.0.R1

include-radius-attribute

Context **configure subscriber-mgmt radius-accounting-policy** *string*
Description Enter the include-radius-attribute context
Introduced 16.0.R1

access-loop-options *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Enable/disable include of the access-loop-options attribute.
Default false
Introduced 16.0.R1

acct-authentic *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Enable/disable include of the acct-authentic attribute.
Default false
Introduced 16.0.R1

acct-delay-time *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the acct-delay-time attribute.

Default false

Introduced 16.0.R1

acct-triggered-reason *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include Alc-Acct-Triggered-Reason attribute

Default false

Introduced 16.0.R1

all-authorized-session-addresses *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include all included and authorized address/prefix attributes in session accounting

Default false

Introduced 16.0.R1

apn *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the APN attribute.

Default false

Introduced 16.0.R1

bearer-fteid *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include bearer-fteid attribute

Default false

Introduced 16.0.R1

bonding-active-connections *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable including the Radius attribute Alc-Bonding-Active-Connections.

Default false

Introduced 16.0.R1

bonding-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable including the Radius attribute Alc-Bonding-Id.

Default false

Introduced 16.0.R1

brg-num-active-sessions *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable including the Radius attribute Alc-BRG-Num-Active-Sessions.

Default false

Introduced 16.0.R1

called-station-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include called-station-id attribute

Default false

Introduced 16.0.R1

calling-station-id

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enter the calling-station-id context

Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute calling-station-id**

Description Specifies the calling-station-id type.

Default sap-string

Options sap-string, mac, sap-id, remote-id, llid

Introduced 16.0.R1

circuit-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include circuit-id attribute

Default false

Introduced 16.0.R1

delegated-ipv6-prefix *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include delegated-ipv6-prefix attribute

Default false

Introduced 16.0.R1

detailed-acct-attributes *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include more detailed accounting attributes

Default true

Introduced 16.0.R1

dhcp-vendor-class-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the IPOE-Vendor-Class-Id RADIUS attribute.

Default false

Introduced 16.0.R1

error-code *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include detailed error codes
Default false
Introduced 16.0.R1

firewall-info *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Enable/disable include of the firewall information attribute.
Default false
Introduced 16.0.R1

framed-interface-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include framed-interface-id attribute
Default false
Introduced 16.0.R1

framed-ip-address *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include framed-ip-address attribute
Default false
Introduced 16.0.R1

framed-ip-netmask *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include framed-ip-netmask attribute
Default false
Introduced 16.0.R1

framed-ipv6-prefix *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include framed-ipv6-prefix attribute

Default false

Introduced 16.0.R1

framed-ipv6-route *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include framed-ipv6-route attribute

Default false

Introduced 16.0.R1

framed-route *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include framed-route attribute

Default false

Introduced 16.0.R1

imei *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the IMEI attribute.

Default false

Introduced 16.0.R1

ipv6-address *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include IPv6 address attribute

Default false

Introduced 16.0.R1

lanext-bridge-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the lanext-bridge-id attribute.

Default false

Introduced 16.0.R1

lanext-device-type *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the lanext-device-type attribute.

Default false

Introduced 16.0.R1

lanext-route-distinguisher *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the lanext-route-distinguisher attribute.

Default false

Introduced 16.0.R1

lanext-route-target *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the lanext-route-target attribute.

Default false

Introduced 16.0.R1

lanext-vni *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the lanext-vni attribute.

Default false

Introduced 16.0.R1

mac-address *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the MAC-Address attribute.
Default	false
Introduced	16.0.R1

msisdn *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the MSISDN attribute.
Default	false
Introduced	16.0.R1

nas-identifier *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the NAS-Identifier attribute.
Default	false
Introduced	16.0.R1

nas-port

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description	Enter the nas-port context
Introduced	16.0.R1

bit-spec *binary-specification*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute nas-port**
Description	RADIUS NAS-Port attribute
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

nas-port-id

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enter the nas-port-id context

Introduced 16.0.R1

prefix-string *string*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute nas-port-id**

Description String to be prefixed to the NAS-Port-Id attribute

String Length 1 to 8

Introduced 16.0.R1

suffix *keyword*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute nas-port-id**

Description String to be suffixed to the NAS-Port-Id attribute

Options circuit-id, remote-id

Introduced 16.0.R1

nas-port-type

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enter the nas-port-type context

Introduced 16.0.R1

type (*keyword* | *number*)

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute nas-port-type**

Description Value for RADIUS NAS-Port-Type attribute

Range 0 to 255

Default rfc-aligned

Options rfc-aligned

Introduced 16.0.R1

nat-port-range *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include NAT port range attribute
Default false
Introduced 16.0.R1

remote-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include remote-id attribute
Default false
Introduced 16.0.R1

sla-profile *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include sla-profile attribute
Default false
Introduced 16.0.R1

spi-sharing-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include spi-sharing-id attribute
Default false
Introduced 16.0.R1

std-acct-attributes *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description Include standard accounting attributes
Default false
Introduced 16.0.R1

steering-profile *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable including the Radius attribute Alc-Steering-Profile.

Default false

Introduced 16.0.R1

sub-profile *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include sub-profile attribute

Default false

Introduced 16.0.R1

subscriber-id *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Include subscriber-id attribute

Default false

Introduced 16.0.R1

tunnel-client-attrs *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of tunnel-client attributes.

Default false

Introduced 16.0.R1

tunnel-server-attrs *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of tunnel-server attributes.

Default false

Introduced 16.0.R1

uli *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Generate the ULI RADIUS attribute

Default false

Introduced 16.0.R1

user-name *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of user-name attribute.

Default false

Introduced 16.0.R1

v6-aggregate-stats *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Report IPv6 aggregated forwarded octet and packet counters using RADIUS VSAs

Default false

Introduced 16.0.R1

wifi-num-attached-ues *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable including the Alc-Num-Attached-UEs RADIUS attribute.

Default false

Introduced 16.0.R1

wifi-rssi *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**

Description Enable/disable include of the 802.11 Received Signal Strength Indication attribute.

Default false

Introduced 16.0.R1

wifi-ssid-vlan *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description	Enable/disable including the per-SSID VLAN ID in Alc-Wlan-SSID-VLAN.
Default	false
Introduced	16.0.R1

xconnect-tunnel-home-address *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **include-radius-attribute**
Description	Enable/disable include of Alc-Xconnect-Tunnel-Home-Ipv6 attribute.
Default	false
Introduced	16.0.R3

queue-instance-accounting

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Enter the queue-instance-accounting context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **queue-instance-accounting**
Description	Administrative state of per-queue-instance accounting
Default	enable
Options	enable, disable
Introduced	16.0.R1

interim-update *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **queue-instance-accounting**
Description	Send accounting interim-update messages for the queue instance
Default	true
Introduced	16.0.R1

radius-server-policy *string*

Context **configure subscriber-mgmt radius-accounting-policy** *string*

Description RADIUS server policy

Reference configure **aaa radius server-policy** *string*

Introduced 16.0.R1

session-accounting

Context **configure subscriber-mgmt radius-accounting-policy** *string*

Description Enter the session-accounting context

Introduced 16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **session-accounting**

Description Administrative state of per-session accounting

Default disable

Options enable, disable

Introduced 16.0.R1

host-update *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **session-accounting**

Description Allow host updates

Default false

Introduced 16.0.R1

interim-update *boolean*

Context **configure subscriber-mgmt radius-accounting-policy** *string* **session-accounting**

Description Allow interim-update accounting messages to be sent

Default false

Introduced 16.0.R1

session-id-format *keyword*

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Format used in accounting session ID attributes
Default	description
Options	description, number
Introduced	16.0.R1

triggered-updates

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Enter the triggered-updates context
Introduced	16.0.R1

gtp-mobility *boolean*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **triggered-updates**
Description	Enable/disable gtp triggered updates.
Default	false
Introduced	16.0.R1

update-interval

Context	**configure subscriber-mgmt radius-accounting-policy** *string*
Description	Enter the update-interval context
Introduced	16.0.R1

interval *number*

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **update-interval**
Description	Intermediate update interval
Range	5 to 259200
Units	minutes
Introduced	16.0.R1

jitter (*keyword* | *number*)

Context	**configure subscriber-mgmt radius-accounting-policy** *string* **update-interval**
Description	Intermediate update interval jitter
Range	0 to 3600
Default	auto
Units	seconds
Options	auto
Introduced	16.0.R1

radius-authentication-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the radius-authentication-policy context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

fallback

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	Enter the fallback context
Introduced	16.0.R1

action

Context **configure subscriber-mgmt radius-authentication-policy** *string* **fallback**
Description Enter the action context
Introduced 16.0.R1

accept

Context **configure subscriber-mgmt radius-authentication-policy** *string* **fallback action**
Description Automatically accept all authentication requests
Introduced 16.0.R1
Notes This element is part of a choice

user-db *string*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **fallback action**
Description Local user database used to authenticate to the server
String Length 0 to 255
Introduced 16.0.R1
Notes This element is part of a choice

force-probing *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **fallback**
Description Enable force probing
Default false
Introduced 16.0.R1

include-radius-attribute

Context **configure subscriber-mgmt radius-authentication-policy** *string*
Description Enter the include-radius-attribute context
Introduced 16.0.R1

access-loop-options *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enable/disable include of the access-loop-options attribute.

Default false

Introduced 16.0.R1

acct-session-id

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enter the acct-session-id context

Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute acct-session-id**

Description Specifies the accounting-session-id type.

Default host

Options host, session

Introduced 16.0.R1

apn *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enable/disable include of the APN attribute.

Default false

Introduced 16.0.R1

called-station-id *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Include called-station-id attribute

Default false

Introduced 16.0.R1

calling-station-id

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enter the calling-station-id context

Introduced 16.0.R1

type *keyword*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute calling-station-id**

Description Specifies the calling-station-id type.

Default sap-string

Options sap-string, mac, sap-id, remote-id, llid

Introduced 16.0.R1

circuit-id *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Include circuit-id attribute

Default false

Introduced 16.0.R1

dhcp-options *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Generate the DHCP options RADIUS attribute

Default false

Introduced 16.0.R1

dhcp-vendor-class-id *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enable/disable include of the IPOE-Vendor-Class-Id RADIUS attribute.

Default false

Introduced 16.0.R1

dhcp6-options *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Generate the DHCPv6 options RADIUS attribute
Default	false
Introduced	16.0.R1

gprs-negotiated-qos-profile *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Generate the GPRS negotiated QoS profile RADIUS attribute
Default	false
Introduced	16.0.R1

imei *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the IMEI attribute.
Default	false
Introduced	16.0.R1

mac-address *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the MAC-Address attribute.
Default	false
Introduced	16.0.R1

msisdn *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the MSISDN attribute.
Default	false
Introduced	16.0.R1

nas-identifier *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable include of the NAS-Identifier attribute.
Default	false
Introduced	16.0.R1

nas-port

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enter the nas-port context
Introduced	16.0.R1

bit-spec *binary-specification*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute nas-port**
Description	RADIUS NAS-Port attribute
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

nas-port-id

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enter the nas-port-id context
Introduced	16.0.R1

prefix-string *string*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute nas-port-id**
Description	String to be prefixed to the NAS-Port-Id attribute
String Length	1 to 8
Introduced	16.0.R1

suffix *keyword*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute nas-port-id**

Description String to be suffixed to the NAS-Port-Id attribute

Options circuit-id, remote-id

Introduced 16.0.R1

nas-port-type

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enter the nas-port-type context

Introduced 16.0.R1

type (*keyword* | *number*)

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute nas-port-type**

Description Value for RADIUS NAS-Port-Type attribute

Range 0 to 255

Default rfc-aligned

Options rfc-aligned

Introduced 16.0.R1

pppoe-service-name *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Generate the pppoe-service-name RADIUS attribute

Default false

Introduced 16.0.R1

rat-type *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Generate the RAT type RADIUS attribute

Default false

Introduced 16.0.R1

remote-id *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Include remote-id attribute

Default false

Introduced 16.0.R1

sap-session-index *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Generate the per-SAP unique session index

Default false

Introduced 16.0.R1

tunnel-server-attrs *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Enable/disable include of tunnel-server attributes.

Default false

Introduced 16.0.R1

uli *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**

Description Generate the ULI RADIUS attribute

Default false

Introduced 16.0.R1

wifi-num-attached-ues *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable including the Alc-Num-Attached-UEs RADIUS attribute.
Default	false
Introduced	16.0.R1

wifi-ssid-vlan *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable including the per-SSID VLAN ID in Alc-Wlan-SSID-VLAN.
Default	false
Introduced	16.0.R1

xconnect-tunnel-home-address *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **include-radius-attribute**
Description	Enable/disable include of Alc-Xconnect-Tunnel-Home-Ipv6 attribute.
Default	false
Introduced	16.0.R5

password *encrypted-leaf*

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	RADIUS request password
String Length	1 to 114
Introduced	16.0.R1

ppp-user-name

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	Enter the ppp-user-name context
Introduced	16.0.R1

domain-name *string*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **ppp-user-name**
Description	Specifies the domain-name to use with user-name operations.
String Length	1 to 128
Introduced	16.0.R1

domain-operation *user-name-format-domain-operation*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **ppp-user-name**
Description	Specifies the operation to perform on the user-name.
Options	append, strip, replace, default
Introduced	16.0.R1

pppoe-access-method *keyword*

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	PPPoE access method
Default	padi
Options	none, padi, pap-chap
Introduced	16.0.R1

radius-server-policy *string*

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	RADIUS server policy
Reference	configure **aaa radius server-policy** *string*
Introduced	16.0.R1

re-authentication *boolean*

Context	**configure subscriber-mgmt radius-authentication-policy** *string*
Description	Enable re-authentication on IPOE renewal
Default	false
Introduced	16.0.R1

send-acct-stop-on-fail

Context **configure subscriber-mgmt radius-authentication-policy** *string*

Description Enter the send-acct-stop-on-fail context

Introduced 16.0.R1

on-accept-failure *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **send-acct-stop-on-fail**

Description Send accounting-stop on host authentication and instantiation failure after access-accept.

Default false

Introduced 16.0.R1

on-reject *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **send-acct-stop-on-fail**

Description Send accounting-stop on access-reject.

Default false

Introduced 16.0.R1

on-request-failure *boolean*

Context **configure subscriber-mgmt radius-authentication-policy** *string* **send-acct-stop-on-fail**

Description Send accounting-stop on request failure.

Default false

Introduced 16.0.R1

user-name

Context **configure subscriber-mgmt radius-authentication-policy** *string*

Description Enter the user-name context

Introduced 16.0.R1

domain-name *string*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **user-name**
Description	Specifies the domain-name to use with user-name operations.
String Length	1 to 128
Introduced	16.0.R1

domain-operation *user-name-format-domain-operation*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **user-name**
Description	Specifies the operation to perform on the user-name.
Options	append, strip, replace, default
Introduced	16.0.R1

format *keyword*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **user-name**
Description	How user is represented when contacting RADIUS server
Default	mac
Options	mac, circuit-id, tuple, ascii-converted-circuit-id, ascii-converted-tuple, dhcp-client-vendor-opts, mac-giaddr, ppp-user-name
Introduced	16.0.R1

gtp-format *keyword*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **user-name**
Description	Format of the GTP username
Default	imsi
Options	imsi, imsi-apn
Introduced	16.0.R1

mac-format *mac-specification*

Context	**configure subscriber-mgmt radius-authentication-policy** *string* **user-name**
Description	Specifies how the MAC address gets formatted.
String Length	2 to 7
Default	aa:
Introduced	16.0.R1

rip-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the rip-policy context
Max. Elements	255
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt rip-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

authentication-key *encrypted-leaf*

Context	**configure subscriber-mgmt rip-policy** *string*
Description	Set authentication key.
String Length	1 to 50
Introduced	16.0.R1

authentication-type *keyword*

Context	**configure subscriber-mgmt rip-policy** *string*
Description	Set authentication type.
Options	password, message-digest, message-digest-20
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt rip-policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

router-advertisement-policy [name] *external-named-item*

Context	**configure subscriber-mgmt**
Description	Enter the router-advertisement-policy context
Max. Elements	16
Introduced	16.0.R1

[name] *external-named-item*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item*
Description	Router advertisement policy name
Introduced	16.0.R1
Notes	This element is part of a list key

force-mcast *keyword*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item*
Description	Send router advertisement to a multicast address instead of unicast for IPoE
Options	ip, ip-mac
Introduced	16.0.R1

max-advertisement-interval *number*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item*
Description	Maximum advertisement interval
Range	900 to 1800
Default	1800
Units	seconds
Introduced	16.0.R1

min-advertisement-interval *number*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item*
Description	Minimum advertisement interval
Range	900 to 1350
Default	900
Units	seconds
Introduced	16.0.R1

options

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item*

Description Enter the options context

Introduced 16.0.R1

current-hop-limit *number*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**

Description Hop limit to be advertised

Range 0 to 255

Default 64

Introduced 16.0.R1

dns

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**

Description Enter the dns context

Introduced 16.0.R1

include-rdnss *boolean*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options dns**

Description Include the RDNSS server option 25

Default false

Introduced 16.0.R1

rdnss-lifetime (*number* | *keyword*)

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options dns**

Description Maximum time for the RDNSS address to remain valid

Range 900 to 3600

Default 3600

Units seconds

Options infinite

Introduced 16.0.R1

managed-configuration *boolean*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**
Description Managed address configuration flag
Default false
Introduced 16.0.R1

mtu (*number* | *keyword*)

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**
Description Advertised MTU value
Range 1280 to 9212
Default not-included
Units bytes
Options not-included
Introduced 16.0.R1

other-stateful-configuration *boolean*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**
Description Other stateful configuration flag
Default false
Introduced 16.0.R1

reachable-time *number*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**
Description Neighbor discovery reachable time that is advertised for this group interface
Range 0 to 3600000
Default 0
Units milliseconds
Introduced 16.0.R1

retransmit-timer *number*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**
Description	Neighbor discovery retrasnmit timer that is advertised for this group interface
Range	0 to 1800000
Default	0
Units	seconds
Introduced	16.0.R1

router-lifetime (*number* | *keyword*)

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **options**
Description	Router lifetime
Range	2700 to 9000
Default	4500
Units	seconds
Options	no-default-router
Introduced	16.0.R1

prefix-options

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item*
Description	Enter the prefix-options context
Introduced	16.0.R1

stateful

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options**
Description	Enter the stateful context
Introduced	16.0.R1

auto-lifetimes *boolean*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateful**
Description	Use automatic lifetimes for stateful prefixes
Default	false
Introduced	16.0.R1

on-link *boolean*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateful**
Description	Assign the prefix to an interface on the specified link
Default	true
Introduced	16.0.R1

preferred-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateful**
Description	Time for a prefix to remain preferred
Default	3600
Units	seconds
Introduced	16.0.R1

valid-lifetime *router-advertisement-prefix-options-lifetime*

Context	**configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateful**
Description	Time for a prefix to remain valid
Default	86400
Units	seconds
Introduced	16.0.R1

stateless

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options**

Description Enter the stateless context

Introduced 16.0.R1

on-link *boolean*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateless**

Description Assign the prefix to an interface on the specified link

Default true

Introduced 16.0.R1

preferred-lifetime *router-advertisement-prefix-options-lifetime*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateless**

Description Time for a prefix to remain preferred

Default 3600

Units seconds

Introduced 16.0.R1

valid-lifetime *router-advertisement-prefix-options-lifetime*

Context **configure subscriber-mgmt router-advertisement-policy** *external-named-item* **prefix-options stateless**

Description Time for a prefix to remain valid

Default 86400

Units seconds

Introduced 16.0.R1

shcv-policy [name] *external-named-item*

Context **configure subscriber-mgmt**

Description Enter the shcv-policy context

Max. Elements 64

Introduced 16.0.R1

[name] *external-named-item*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item*
Description	Policy name
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

layer-3

Context	**configure subscriber-mgmt shcv-policy** *external-named-item*
Description	Enter the layer-3 context
Introduced	16.0.R1

source-ip-origin *host-connectivity-verify-source-ip-origin*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **layer-3**
Description	Origin of the source IP address for connectivity verification.
Default	interface
Options	interface, vrrp
Introduced	16.0.R1

periodic

Context	**configure subscriber-mgmt shcv-policy** *external-named-item*
Description	Enter the periodic context
Introduced	16.0.R1

action *host-connectivity-verify-action*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **periodic**
Description	Action when periodic connectivity verification fails
Default	alarm
Options	alarm, remove
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **periodic**
Description	Administrative state of periodic connectivity verification
Default	enable
Options	enable, disable
Introduced	16.0.R1

interval *host-connectivity-verify-interval*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **periodic**
Description	Interval between periodic connectivity verification.
Range	1 to 6000
Default	30
Introduced	16.0.R1

retry-count *host-connectivity-verify-retry-count*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **periodic**
Description	Number of retransmissions in periodic connectivity verification.
Range	1 to 29
Default	2
Introduced	16.0.R1

timeout *host-connectivity-verify-retry-timeout*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **periodic**
Description	Timeout before a periodic connectivity verification is retransmitted.
Range	1 to 60
Default	10
Introduced	16.0.R1

trigger

Context	**configure subscriber-mgmt shcv-policy** *external-named-item*
Description	Enter the trigger context
Introduced	16.0.R1

host-limit-exceeded

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger**
Description	Enter the host-limit-exceeded context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger host-limit-exceeded**
Description	Administrative state of the host-limit-exceeded periodic connectivity verification
Default	enable
Options	enable, disable
Introduced	16.0.R1

retry-count *host-connectivity-verify-retry-count*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger host-limit-exceeded**
Description	Number of retransmissions in host-limit-exceeded periodic connectivity verification
Range	1 to 29
Default	1
Introduced	16.0.R1

timeout *host-connectivity-verify-retry-timeout*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger host-limit-exceeded**
Description	Timeout before a host-limit-exceeded periodic connectivity verification is retransmitted
Range	1 to 60
Default	1
Introduced	16.0.R1

inactivity

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger**
Description	Enter the inactivity context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger inactivity**
Description	Administrative state of the inactivity periodic connectivity verification
Default	enable
Options	enable, disable
Introduced	16.0.R1

retry-count *host-connectivity-verify-retry-count*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger inactivity**
Description	Number of retransmissions in inactivity periodic connectivity verification
Range	1 to 29
Default	2
Introduced	16.0.R1

timeout *host-connectivity-verify-retry-timeout*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger inactivity**
Description	Timeout before an inactivity periodic connectivity verification is retransmitted
Range	1 to 60
Default	10
Introduced	16.0.R1

ip-conflict

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger**

Description Enter the ip-conflict context

Introduced 16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger ip-conflict**

Description Administrative state of the IP conflict periodic connectivity verification

Default enable

Options enable, disable

Introduced 16.0.R1

retry-count *host-connectivity-verify-retry-count*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger ip-conflict**

Description Number of retransmissions in ip-conflict periodic connectivity verification

Range 1 to 29

Default 1

Introduced 16.0.R1

timeout *host-connectivity-verify-retry-timeout*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger ip-conflict**

Description Timeout before an ip-conflict periodic connectivity verification is retransmitted

Range 1 to 60

Default 1

Introduced 16.0.R1

mac-learning

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger**

Description Enter the mac-learning context

Introduced 16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger mac-learning**
Description Administrative state of the MAC learning periodic connectivity verification
Default enable
Options enable, disable
Introduced 16.0.R1

retry-count *host-connectivity-verify-retry-count*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger mac-learning**
Description Number of retransmissions in mac-learning periodic connectivity verification
Range 1 to 29
Default 2
Introduced 16.0.R1

timeout *host-connectivity-verify-retry-timeout*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger mac-learning**
Description Timeout before an mac-learning periodic connectivity verification is retransmitted
Range 1 to 60
Default 10
Introduced 16.0.R1

mobility

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger**
Description Enter the mobility context
Introduced 16.0.R1

admin-state *keyword*

Context **configure subscriber-mgmt shcv-policy** *external-named-item* **trigger mobility**
Description Administrative state of the mobility periodic connectivity verification
Default enable
Options enable, disable
Introduced 16.0.R1

retry-count *host-connectivity-verify-retry-count*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger mobility**
Description	Number of retransmissions in mobility periodic connectivity verification
Range	1 to 29
Default	1
Introduced	16.0.R1

timeout *host-connectivity-verify-retry-timeout*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **trigger mobility**
Description	Timeout before an mobility periodic connectivity verification is retransmitted
Range	1 to 60
Default	1
Introduced	16.0.R1

vpls

Context	**configure subscriber-mgmt shcv-policy** *external-named-item*
Description	Enter the vpls context
Introduced	16.0.R1

source-ip *ipv4-unicast-address*

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **vpls**
Description	Source IPv4 address for connectivity verification.
Introduced	16.0.R1

source-mac *mac-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt shcv-policy** *external-named-item* **vpls**
Description	Source MAC address for connectivity verification.
Introduced	16.0.R1

sla-profile [name] *external-named-item*

Context	**configure subscriber-mgmt**
Description	Enter the sla-profile context
Introduced	16.0.R1

[name] *external-named-item*

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Profile name
Introduced	16.0.R1
Notes	This element is part of a list key

credit-control-policy *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Credit policy for this SLA profile
Reference	configure **subscriber-mgmt credit-control-policy** *string*
Introduced	16.0.R1

def-instance-sharing *keyword*

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Default method for SLA Profile Instance sharing of IPoE and PPPoE sessions
Default	per-sap
Options	per-sap, per-session
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress

Context **configure subscriber-mgmt sla-profile** *external-named-item*

Description Enter the egress context

Introduced 16.0.R1

bonding-selection

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress**

Description Enter the bonding-selection context

Introduced 16.0.R1

rate-thresholds

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress bonding-selection**

Description Enter the rate-thresholds context

Introduced 16.0.R1

high *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress bonding-selection rate-thresholds**

Description High threshold rate percentage

Range 56 to 99

Default 90

Units percent

Introduced 16.0.R1

low *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress bonding-selection rate-thresholds**

Description Low threshold rate percentage

Range 55 to 98

Default 80

Units percent

Introduced 16.0.R1

weight

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress bonding-selection**

Description Enter the weight context

Introduced 16.0.R1

change *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress bonding-selection weight**

Description Weight change of the preferred connection

Range 0 to 10

Default 5

Units percent

Introduced 16.0.R1

initial *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress bonding-selection weight**

Description Initial weight of the preferred connection

Range 1 to 100

Default 100

Units percent

Introduced 16.0.R1

ip-filter *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress**

Description IP filter

Reference configure **filter ip-filter** *filter-name*

Introduced 16.0.R1

ipv6-filter *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress**
Description	IPv6 filter
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R1

qos

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress**
Description	Enter the qos context
Introduced	16.0.R1

hs-agg-rate *number*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos**
Description	Maximum rate for expanded egress HS queues
Range	1 to 100000000
Units	kilobps
Introduced	16.0.R1

qos-marking-from-sap *boolean*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos**
Description	Define the sap-egress qos-policy from which the egress qos marking rules are taken.
Default	true
Introduced	16.0.R1

sap-egress

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos**
Description	Enter the sap-egress context
Introduced	16.0.R1

overrides

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress**

Description Enter the overrides context

Introduced 16.0.R1

hs-queue-stat-mode *keyword*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides**

Description Egress HS queue stats mode

Options v4-v6

Introduced 16.0.R1

hs-wrr-group [id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides**

Description Enter the hs-wrr-group context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides hs-wrr-group** *string*

Description HS WRR group ID

Reference configure **qos sap-egress** *qos-policy-name* **hs-wrr-group** *number*

Introduced 16.0.R1

Notes This element is part of a list key

hs-class-weight *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides hs-wrr-group** *string*

Description Class weight override for WRR group

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides hs-wrr-group** *string*

Description PIR rate override for WRR group

Units kilobps

Introduced 16.0.R1

policer [id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides**

Description Enter the policer context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string*

Description Policer ID

Reference configure **qos sap-egress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

Notes This element is part of a list key

cbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string*

Description CBS

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string*

Description MBS

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string*

Description Packet byte offset

Range -64 to 31

Introduced 16.0.R1

rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string* **rate**

Description Specifies CIR override

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string* **rate**

Description Specifies PIR override

Units kilobps

Introduced 16.0.R1

stat-mode *subscriber-egress-policer-stat-mode-type*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides policer** *string*

Description Stat mode for the policer

Options no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-profile-cir, offered-limited-capped-cir, offered-profile-capped-cir, v4-v6, offered-total-cir-exceed, offered-four-profile-no-cir, offered-total-cir-four-profile

Introduced 16.0.R1

queue [id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides**

Description Enter the queue context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Queue ID

Reference configure **qos sap-egress** *qos-policy-name* **queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

avg-frame-overhead *decimal-number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Average frame overhead

Range 0.00 to 100.00

Units percent

Introduced 16.0.R1

cbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description CBS

Introduced 16.0.R1

high-prio-only (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description High priority burst size

Units percent

Introduced 16.0.R1

hs-class-weight *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Class-weight override for expanded egress HS queues

Range 1 | 2 | 4 | 8

Introduced 16.0.R1

hs-wred-queue

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Enter the hs-wred-queue context

Introduced 16.0.R4

policy *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string* **hs-wred-queue**

Description Name of slope-policy.

Reference configure **qos slope-policy** *string*

Introduced 16.0.R4

hs-wrr-weight *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Maximum rate for expanded egress HS queues

Range 1 to 127

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description MBS

Introduced 16.0.R1

rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string* **rate**

Description Specifies CIR override

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string* **rate**

Description Specifies PIR override

Units kilobps

Introduced 16.0.R1

stat-mode *keyword*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress overrides queue** *string*

Description Stat mode for the policer

Options v4-v6

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress**

Description SAP-egress QoS policy

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

port-parent-location *keyword*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos sap-egress**
Description	Scheduling type for queued traffic
Default	port
Options	port, vport
Introduced	16.0.R1

scheduler-policy

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy**
Description	Enter the overrides context
Introduced	16.0.R1

scheduler [scheduler-name] *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy overrides**
Description	Enter the scheduler context
Introduced	16.0.R1

[scheduler-name] *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string*
Description	Scheduler name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Administrative CIR

Default sum

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Administrative PIR

Default max

Units kilobps

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos scheduler-policy**

Description Egress scheduler policy

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

use-ingress-l2tp-dscp *boolean*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress qos**

Description Specify that the DSCP of the ingress L2TP header be used to do egress reclassification.

Default false

Introduced 16.0.R1

report-rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress**

Description Enter the report-rate context

Introduced 16.0.R1

agg-rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress report-rate**

Description Report the aggregate rate

Introduced 16.0.R1

Notes This element is part of a choice

policer *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress report-rate**

Description Report the rate of the specified policer

Range 1 to 63

Introduced 16.0.R1

Notes This element is part of a choice

pppoe-actual-rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress report-rate**

Description Report the rate of the DSL-Forum Vendor-Specific PPPoE Tag.

Introduced 16.0.R1

Notes This element is part of a choice

rfc5515-actual-rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **egress report-rate**

Description Report the rate as specified in RFC5515

Introduced 16.0.R1

Notes This element is part of a choice

scheduler *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **egress report-rate**
Description	Report the rate of the specified scheduler
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

host-limits

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Enter the host-limits context
Introduced	16.0.R1

ipv4

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits**
Description	Enter the ipv4 context
Introduced	16.0.R1

arp *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv4**
Description	Maximum number of IPv4 ARP hosts
Range	0 to 131071
Introduced	16.0.R1

dhcp *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv4**
Description	Maximum number of IPv4 DHCP hosts
Range	0 to 131071
Introduced	16.0.R1

overall *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv4**

Description Maximum number of IPv4 hosts

Range 0 to 131071

Introduced 16.0.R1

ppp *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv4**

Description Maximum number of IPv4 PPP hosts

Range 0 to 131071

Introduced 16.0.R1

ipv6

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits**

Description Enter the ipv6 context

Introduced 16.0.R1

overall *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**

Description Maximum number of IPv6 hosts

Range 0 to 131071

Introduced 16.0.R1

pd-ipoe-dhcp *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**

Description Maximum number of IPv6-PD IPOE DHCP hosts.

Range 0 to 131071

Introduced 16.0.R1

pd-overall *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**
Description	Maximum number of IPv6-PD hosts.
Range	0 to 131071
Introduced	16.0.R1

pd-ppp-dhcp *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**
Description	Maximum number of IPv6-PD PPP DHCP hosts.
Range	0 to 131071
Introduced	16.0.R1

wan-ipoe-dhcp *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**
Description	Maximum number of IPv6-Wan IPOE DHCP hosts.
Range	0 to 131071
Introduced	16.0.R1

wan-ipoe-slaac *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**
Description	Maximum number of IPv6-Wan IPOE SLAAC hosts.
Range	0 to 131071
Introduced	16.0.R1

wan-overall *sla-profile-host-limit-with-zero*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**
Description	Maximum number of IPv6-Wan hosts.
Range	0 to 131071
Introduced	16.0.R1

wan-ppp-dhcp *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**

Description Maximum number of IPv6-Wan PPP DHCP hosts.

Range 0 to 131071

Introduced 16.0.R1

wan-ppp-slaac *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits ipv6**

Description Maximum number of IPv6-Wan PPP SLAAC hosts.

Range 0 to 131071

Introduced 16.0.R1

lac-overall *sla-profile-host-limit-with-zero*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits**

Description Maximum number of L2TP LAC hosts.

Range 0 to 131071

Introduced 16.0.R1

overall *sla-profile-host-limit*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits**

Description Maximum number of hosts

Range 1 to 131071

Introduced 16.0.R1

remove-oldest *boolean*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **host-limits**

Description Remove oldest

Default false

Introduced 16.0.R1

idle-timeout

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Enter the idle-timeout context
Introduced	16.0.R1

category [category-name] *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **idle-timeout**
Description	Enter the category context
Max. Elements	16
Introduced	16.0.R4

[category-name] *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **idle-timeout category** *string*
Description	Name for the credit control category associated with this SLA profile
Reference	configure **subscriber-mgmt category-map** *string* **category** *string*
Introduced	16.0.R4
Notes	This element is part of a list key

action *keyword*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **idle-timeout category** *string*
Description	The action to be taken when the idle timeout has occurred.
Default	terminate
Options	terminate, shcv
Introduced	16.0.R4

timeout *number*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **idle-timeout category** *string*
Description	The time that this category can stay below its activity-threshold before action is taken.
Range	60 to 15552000
Units	seconds
Introduced	16.0.R4

category-map-name *string*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **idle-timeout**
Description	The name of the credit control category map to be used when idle-timeout is enabled for this SLA profile.
Reference	configure **subscriber-mgmt category-map** *string*
Introduced	16.0.R4
Notes	This element is mandatory

ingress

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Enter the ingress context
Introduced	16.0.R1

ip-filter *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **ingress**
Description	IP filter
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

ipv6-filter *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **ingress**
Description	IPv6 filter
Reference	configure **filter ipv6-filter** *filter-name*
Introduced	16.0.R1

qos

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **ingress**
Description	Enter the qos context
Introduced	16.0.R1

sap-ingress

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos**

Description Enter the sap-ingress context

Introduced 16.0.R1

overrides

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress**

Description Enter the overrides context

Introduced 16.0.R1

policer [id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides**

Description Enter the policer context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string*

Description Policer ID

Reference configure **qos sap-ingress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

Notes This element is part of a list key

cbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string*

Description CBS

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string*

Description MBS

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string*

Description Packet byte offset

Range -32 to 31

Introduced 16.0.R1

rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string* **rate**

Description Specifies CIR override

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string* **rate**

Description Specifies PIR override

Units kilobps

Introduced 16.0.R1

stat-mode *subscriber-ingress-policer-stat-mode-type*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides policer** *string*

Description Stat mode for the policer

Options no-stats, minimal, offered-profile-no-cir, offered-total-cir, offered-priority-no-cir, offered-profile-cir, offered-priority-cir, offered-limited-profile-cir, offered-profile-capped-cir, offered-limited-capped-cir, v4-v6

Introduced 16.0.R1

queue [id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides**

Description Enter the queue context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string*

Description Queue ID

Reference configure **qos sap-ingress** *qos-policy-name* **queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

cbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string*

Description CBS

Introduced 16.0.R1

high-prio-only (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string*

Description High priority burst size

Units percent

Introduced 16.0.R1

mbs (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string*

Description MBS

Introduced 16.0.R1

rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string* **rate**

Description Specifies CIR override

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string* **rate**

Description Specifies PIR override

Units kilobps

Introduced 16.0.R1

stat-mode *keyword*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress overrides queue** *string*

Description Stat mode for the policer

Options v4-v6

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress**
Description SAP-ingress QoS policy
Reference configure **qos sap-ingress** *qos-policy-name*
Introduced 16.0.R1

queuing-type *keyword*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress qos sap-ingress**
Description Ingress queuing type
Default service
Options service, shared, multipoint-shared
Introduced 16.0.R1

report-rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress**
Description Enter the report-rate context
Introduced 16.0.R1

agg-rate

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress report-rate**
Description Report the aggregate rate
Introduced 16.0.R1
Notes This element is part of a choice

policer *number*

Context **configure subscriber-mgmt sla-profile** *external-named-item* **ingress report-rate**
Description Report the rate of the specified policer
Range 1 to 63
Introduced 16.0.R1
Notes This element is part of a choice

pppoe-actual-rate

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **ingress report-rate**
Description	Report the rate of the DSL-Forum Vendor-Specific PPPoE Tag.
Introduced	16.0.R1
Notes	This element is part of a choice

rfc5515-actual-rate

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **ingress report-rate**
Description	Report the rate as specified in RFC5515
Introduced	16.0.R1
Notes	This element is part of a choice

scheduler *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **ingress report-rate**
Description	Report the rate of the specified scheduler
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

one-time-http-redirection

Context	**configure subscriber-mgmt sla-profile** *external-named-item*
Description	Enter the one-time-http-redirection context
Introduced	16.0.R1

ip-filter *string*

Context	**configure subscriber-mgmt sla-profile** *external-named-item* **one-time-http-redirection**
Description	One time HTTP redirection IP filter
Reference	configure **filter ip-filter** *filter-name*
Introduced	16.0.R1

steering-profile [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the steering-profile context
Max. Elements	32
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt steering-profile** *string*
Description	The name of this steering profile.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

access

Context	**configure subscriber-mgmt steering-profile** *string*
Description	Enter the access context
Introduced	16.0.R1

router-instance *string*

Context	**configure subscriber-mgmt steering-profile** *string* **access**
Description	Specifies the routing instance used for access next-hop.
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt steering-profile** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

network

Context	**configure subscriber-mgmt steering-profile** *string*
Description	Enter the network context
Introduced	16.0.R1

next-hop *ipv4-unicast-address*

Context	**configure subscriber-mgmt steering-profile** *string* **network**
Description	Next-hop IP address used for network next-hop
Introduced	16.0.R1

router-instance *string*

Context	**configure subscriber-mgmt steering-profile** *string* **network**
Description	Specifies the (optional) routing instance used for network next-hop. If not specified, the routing instance that receives downstream packets is used to redirect packets to network next-hop
Introduced	16.0.R1

sub-ident-policy [name] *external-named-item*

Context	**configure subscriber-mgmt**
Description	Enter the sub-ident-policy context
Max. Elements	4
Introduced	16.0.R1

[name] *external-named-item*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Policy name
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

primary

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Enter the primary context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **primary**
Description	Administrative state of script execution
Default	disable
Options	enable, disable
Introduced	16.0.R1

script-url *url*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **primary**
Description	Identification script URL
String Length	1 to 180
Introduced	16.0.R1

secondary

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Enter the secondary context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **secondary**
Description	Administrative state of script execution
Default	disable
Options	enable, disable
Introduced	16.0.R1

script-url *url*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **secondary**
Description	Identification script URL
String Length	1 to 180
Introduced	16.0.R1

sla-profile-map

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Enter the sla-profile-map context
Introduced	16.0.R1

entry [sla-profile-string] *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sla-profile-map**
Description	Enter the entry context
Introduced	16.0.R1

[sla-profile-string] *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sla-profile-map entry** *string*
Description	SLA profile string
String Length	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

sla-profile *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sla-profile-map entry** *string*
Description	SLA profile
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

use-direct-map-as-default *boolean*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sla-profile-map**
Description	Allow direct mapping of SLA profile as default
Default	false
Introduced	16.0.R1

strings-from-option *number*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	IPOE option to get the identification strings
Range	1 to 254
Introduced	16.0.R1

sub-profile-map

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Enter the sub-profile-map context
Introduced	16.0.R1

entry [sub-profile-string] *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sub-profile-map**
Description	Enter the entry context
Introduced	16.0.R1

[sub-profile-string] *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sub-profile-map entry** *string*
Description	Subscriber identification string
String Length	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

sub-profile *string*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sub-profile-map entry** *string*
Description	Subscriber profile
Reference	configure **subscriber-mgmt sub-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

use-direct-map-as-default *boolean*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **sub-profile-map**
Description	Allow direct mapping of subscriber profile as default
Default	false
Introduced	16.0.R1

tertiary

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item*
Description	Enter the tertiary context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **tertiary**
Description	Administrative state of script execution
Default	disable
Options	enable, disable
Introduced	16.0.R1

script-url *url*

Context	**configure subscriber-mgmt sub-ident-policy** *external-named-item* **tertiary**
Description	Identification script URL
String Length	1 to 180
Introduced	16.0.R1

sub-mcac-policy [name] *string*

Context	**configure subscriber-mgmt**
Description	Enter the sub-mcac-policy context
Introduced	16.0.R1

[name] *string*

Context	**configure subscriber-mgmt sub-mcac-policy** *string*
Description	Policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure subscriber-mgmt sub-mcac-policy** *string*
Description	Administrative state for this policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

bandwidth

Context	**configure subscriber-mgmt sub-mcac-policy** *string*
Description	Enter the bandwidth context
Introduced	16.0.R1

mandatory (*number* | *keyword*)

Context **configure subscriber-mgmt sub-mcac-policy** *string* **bandwidth**
Description Pre-reserved bandwidth for all mandatory channels.
Introduced 16.0.R1

total (*number* | *keyword*)

Context **configure subscriber-mgmt sub-mcac-policy** *string* **bandwidth**
Description Maximum allowed bandwidth.
Introduced 16.0.R1

description *string*

Context **configure subscriber-mgmt sub-mcac-policy** *string*
Description Text description
String Length 1 to 80
Introduced 16.0.R1

sub-profile [name] *external-named-item*

Context **configure subscriber-mgmt**
Description Enter the sub-profile context
Introduced 16.0.R1

[name] *external-named-item*

Context **configure subscriber-mgmt sub-profile** *external-named-item*
Description Profile name
Introduced 16.0.R1
Notes This element is part of a list key

accounting-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item*
Description Accounting policy
Reference configure **log accounting-policy** *number*
Introduced 16.0.R1

accu-stats-policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Accumulated statistics policy
Reference	configure **subscriber-mgmt accu-stats-policy** *string*
Introduced	16.0.R1

ancp

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Enter the ancp context
Introduced	16.0.R1

ancp-policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **ancp**
Description	ANCP policy for this subscriber profile
Reference	configure **subscriber-mgmt ancp ancp-policy** *string*
Introduced	16.0.R1

collect-stats *boolean*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Collect statistics
Default	false
Introduced	16.0.R1

description *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

egress

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description Enter the egress context

Introduced 16.0.R1

lag-per-link-hash

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress**

Description Enter the lag-per-link-hash context

Introduced 16.0.R1

class *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress lag-per-link-hash**

Description Class used to select a LAG link

Range 1 to 3

Default 1

Introduced 16.0.R1

weight *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress lag-per-link-hash**

Description Weight to be associated with SAP when selecting a LAG link

Range 1 to 1024

Default 1

Introduced 16.0.R1

qos

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress**

Description Enter the qos context

Introduced 16.0.R1

agg-rate

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**
Description	Enter the agg-rate context
Introduced	16.0.R1

queue-frame-based-accounting *boolean*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos agg-rate**
Description	Enable frame-based accounting on all policers and queues associated with context
Default	false
Introduced	16.0.R1

rate *number*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos agg-rate**
Description	Maximum total rate of all egress queues
Range	1 to 800000000
Units	kilobps
Introduced	16.0.R1

encap-offset

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**
Description	Enter the encap-offset context
Introduced	16.0.R1

type *keyword*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos encap-offset**
Description	Offset type
Options	pppoa-llc, pppoa-null, pppoeoa-llc, pppoeoa-llc-fcs, pppoeoa-llc-tagged, pppoeoa-llc-tagged-fcs, pppoeoa-null, pppoeoa-null-fcs, pppoeoa-null-tagged, pppoeoa-null-tagged-fcs, ipoa-llc, ipoa-null, ipoeoa-llc, ipoeoa-llc-fcs, ipoeoa-llc-tagged, ipoeoa-llc-tagged-fcs, ipoeoa-null, ipoeoa-null-fcs, ipoeoa-null-tagged, ipoeoa-null-tagged-fcs, pppoe, pppoe-tagged, ipoe, ipoe-tagged
Introduced	16.0.R1

hs-agg-rate *number*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**
Description	Maximum rate for single egress HS queues
Range	1 to 100000000
Units	kilobps
Introduced	16.0.R1

hs-low-burst-max-class *number*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**
Description	The class value that separates what classes use the low priority burst threshold and what classes use the high priority burst threshold.
Range	1 to 6
Default	6
Introduced	16.0.R1

hsmda

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**
Description	Enter the hsmda context
Introduced	16.0.R1

agg-rate *number*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda**
Description	HSMDA-2 egress aggregate rate limit
Range	1 to 100000000
Units	kilobps
Introduced	16.0.R1

sap-egress

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda**
Description	Enter the sap-egress context
Introduced	16.0.R1

overrides

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress**

Description Enter the overrides context

Introduced 16.0.R1

packet-byte-offset *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides**

Description Specify a packet offset for HSMDA-2 queue accounting.

Range -64 to 31

Introduced 16.0.R1

queue [id] *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides**

Description Enter the queue context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides queue** *string*

Description Queue ID

Reference configure **qos sap-egress** *qos-policy-name* **hsmda-queues queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

mbs (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides queue** *string*

Description MBS

Introduced 16.0.R1

rate (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides queue** *string*

Description PIR percent rate

Units kilobps

Introduced 16.0.R1

slope-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides queue** *string*

Description HSMDA-2 slope policy

Reference configure **qos hsmda-slope-policy** *string*

Introduced 16.0.R1

wrr-weight *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides queue** *string*

Description HSMDA-2 WRR policy

Range 1 to 32

Introduced 16.0.R1

wrr-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress overrides**

Description HSMDA-2 WRR policy

Reference configure **qos hsmda-wrr-policy** *string*

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress**

Description SAP-egress QoS policy

Reference configure **qos sap-egress** *qos-policy-name*

Introduced 16.0.R1

stat-mode *keyword*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos hsmda sap-egress**

Description Specify stat-mode.

Options v4-v6

Introduced 16.0.R5

policer-control-policy

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R1

max-rate (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides root**

Description Maximum rate

Units kilobps

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R1

min-thresh-separation (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum threshold separation

Introduced 16.0.R1

priority [level] *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R1

[level] *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Specifies the priority level.

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description MBS size

Introduced 16.0.R1

policy-name *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos policer-control-policy**
Description	Policer control policy
Reference	configure **qos policer-control-policy** *string*
Introduced	16.0.R1

scheduler-policy

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy**
Description	Enter the overrides context
Introduced	16.0.R1

scheduler [scheduler-name] *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy overrides**
Description	Enter the scheduler context
Introduced	16.0.R1

[scheduler-name] *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string*
Description	Scheduler name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

rate

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string*

Description Enter the rate context

Introduced 16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR.

Default sum

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR.

Default max

Units kilobps

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **egress qos scheduler-policy**

Description Sheduler policy

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

firewall-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description Firewall policy

Reference configure **service nat firewall-policy** *external-named-item*

Introduced 16.0.R1

host-tracking-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description Host tracking policy

Reference configure **subscriber-mgmt host-tracking-policy** *string*

Introduced 16.0.R1

hs-sla-mode *keyword*

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description HS board subscriber SLA mode

Default expanded

Options expanded, single

Introduced 16.0.R1

igmp-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description IGMP policy

Reference configure **subscriber-mgmt igmp-policy** *string*

Introduced 16.0.R1

ingress

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description Enter the ingress context

Introduced 16.0.R1

qos

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress**

Description Enter the qos context

Introduced 16.0.R1

hsmda

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos**

Description Enter the hsmda context

Introduced 16.0.R1

sap-ingress

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda**

Description Enter the sap-ingress context

Introduced 16.0.R1

overrides

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress**

Description Enter the overrides context

Introduced 16.0.R1

policer [id] *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress overrides**

Description Enter the policer context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress overrides policer** *string*

Description Policer ID

Reference configure **qos sap-ingress** *qos-policy-name* **policer** *number*

Introduced 16.0.R1

Notes This element is part of a list key

stat-mode *keyword*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress overrides policer** *string*

Description Stat mode for the policer

Options v4-v6

Introduced 16.0.R1

queue [id] *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress overrides**

Description Enter the queue context

Introduced 16.0.R1

[id] *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress overrides queue** *string*

Description Queue ID

Reference configure **qos sap-ingress** *qos-policy-name* **queue** *number*

Introduced 16.0.R1

Notes This element is part of a list key

stat-mode *keyword*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress overrides queue** *string*

Description Stat mode for the policer

Options v4-v6

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos hsmda sap-ingress**

Description SAP-ingress QoS policy

Reference configure **qos sap-ingress** *qos-policy-name*

Introduced 16.0.R1

policer-control-policy

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos**

Description Enter the policer-control-policy context

Introduced 16.0.R1

overrides

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy**

Description Enter the overrides context

Introduced 16.0.R1

root

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides**

Description Enter the root context

Introduced 16.0.R1

max-rate (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides root**

Description Maximum rate

Units kilobps

Introduced 16.0.R1

priority-mbs-thresholds

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides root**

Description Enter the priority-mbs-thresholds context

Introduced 16.0.R1

min-thresh-separation (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Minimum threshold separation

Introduced 16.0.R1

priority [level] *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides root priority-mbs-thresholds**

Description Enter the priority context

Introduced 16.0.R1

[level] *number*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description Specifies the priority level.

Range 1 to 8

Introduced 16.0.R1

Notes This element is part of a list key

mbs-contribution (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy overrides root priority-mbs-thresholds priority** *number*

Description MBS size

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos policer-control-policy**

Description Policer control policy

Reference configure **qos policer-control-policy** *string*

Introduced 16.0.R1

scheduler-policy

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos**
Description	Enter the scheduler-policy context
Introduced	16.0.R1

overrides

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy**
Description	Enter the overrides context
Introduced	16.0.R1

scheduler [scheduler-name] *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy overrides**
Description	Enter the scheduler context
Introduced	16.0.R1

[scheduler-name] *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy overrides scheduler** *string*
Description	Scheduler name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

rate

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy overrides scheduler** *string*
Description	Enter the rate context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative CIR.

Default sum

Units kilobps

Introduced 16.0.R1

pir (*number* | *keyword*)

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy overrides scheduler** *string* **rate**

Description Specifies the administrative PIR.

Default max

Units kilobps

Introduced 16.0.R1

policy-name *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item* **ingress qos scheduler-policy**

Description Sheduler policy

Reference configure **qos scheduler-policy** *string*

Introduced 16.0.R1

mld-policy *string*

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description MLD policy

Reference configure **subscriber-mgmt mld-policy** *string*

Introduced 16.0.R1

nat

Context **configure subscriber-mgmt sub-profile** *external-named-item*

Description Enter the nat context

Introduced 16.0.R1

policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **nat**
Description	Apply a NAT policy.
Reference	configure **service nat nat-policy** *external-named-item*
Introduced	16.0.R1

prefix-list *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **nat**
Description	Apply a Layer-2-Aware NAT prefix list.
Reference	configure **service nat prefix-list** *string*
Introduced	16.0.R1

pim-policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Protocol Independent Multicast (PIM) policy
Reference	configure **subscriber-mgmt pim-policy** *string*
Introduced	16.0.R1

preference *number*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Preference of this subscriber profile.
Range	1 to 10
Default	5
Introduced	16.0.R1

radius-accounting

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Enter the radius-accounting context
Introduced	16.0.R1

policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **radius-accounting**
Description	RADIUS accounting policies
Reference	configure **subscriber-mgmt radius-accounting-policy** *string*
Max. Elements	5
Introduced	16.0.R1
Notes	This element is ordered by user

session-optimized-stop *boolean*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **radius-accounting**
Description	Optimize PPPoE session accounting stop behavior
Default	false
Introduced	16.0.R1

secondary-shaper-hashing *boolean*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Include LAG hashing on secondary shaper
Default	false
Introduced	16.0.R1

sla-profile-map

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Enter the sla-profile-map context
Introduced	16.0.R1

entry [sla-profile-string] *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **sla-profile-map**
Description	Enter the entry context
Introduced	16.0.R1

[sla-profile-string] *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **sla-profile-map entry** *string*
Description	SLA profile string
String Length	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

sla-profile *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **sla-profile-map entry** *string*
Description	SLA profile
Reference	configure **subscriber-mgmt sla-profile** *external-named-item*
Introduced	16.0.R1
Notes	This element is mandatory

use-direct-map-as-default *boolean*

Context	**configure subscriber-mgmt sub-profile** *external-named-item* **sla-profile-map**
Description	Allow direct mapping of SLA profile as default
Default	false
Introduced	16.0.R1

sub-mcac-policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Subscriber MCAC policy
Reference	configure **subscriber-mgmt sub-mcac-policy** *string*
Introduced	16.0.R1

upnp-policy *string*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Universal Plug 'n Play (UPnP) policy
Reference	configure **service upnp policy** *external-named-item*
Introduced	16.0.R1

volume-stats-type *keyword*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Include non-IP headers in the accounting statistics
Default	l2
Options	l2, ip
Introduced	16.0.R1

vport-hashing *boolean*

Context	**configure subscriber-mgmt sub-profile** *external-named-item*
Description	Include LAG hashing on Vport
Default	false
Introduced	16.0.R1

svlan-statistics

Context	**configure subscriber-mgmt**
Description	Enter the svlan-statistics context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure subscriber-mgmt svlan-statistics**
Description	The administrative state of the collection of Subscriber VLAN statistics
Default	disable
Options	enable, disable
Introduced	16.0.R4

vrgw

Context	**configure subscriber-mgmt**
Description	Enter the vrgw context
Introduced	16.0.R1

brg-profile [brg-profile-name] *string*

Context	**configure subscriber-mgmt vrgw**
Description	Enter the brg-profile context
Max. Elements	16
Introduced	16.0.R4

[brg-profile-name] *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	A brg profile name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

connectivity-verification

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Enter the connectivity-verification context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **connectivity-verification**
Description	Administrative state of connectivity verification
Default	enable
Options	enable, disable
Introduced	16.0.R4

count *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **connectivity-verification**
Description	Total number of consecutive unanswered messages that should be sent before the BRG is considered disconnected
Range	1 to 5
Introduced	16.0.R4

retry-time *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **connectivity-verification**
Description	Time the system will wait after a successful connectivity check before starting a new check
Range	300 to 3600
Introduced	16.0.R4

timeout *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **connectivity-verification**
Description	Timeout after which a message is considered unanswered
Range	5 to 60
Introduced	16.0.R4

description *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Text description.
String Length	1 to 80
Introduced	16.0.R4

dhcp-pool

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Enter the dhcp-pool context
Introduced	16.0.R4

lease-time *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool**
Description	The lease time.
Range	300 to 315446399
Default	21600
Units	seconds
Introduced	16.0.R4

option [number] (*number* | *keyword*)

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool**

Description Enter the option context

Introduced 16.0.R4

[number] (*number* | *keyword*)

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description DHCP option for sending identification strings to DHCP client

Range 1 to 254

Options subnet-mask, default-router, dns-server, domain-name, netbios-name-server, netbios-node-type, lease-time, lease-renew-time, lease-rebind-time

Introduced 16.0.R4

Notes This element is part of a list key

ascii-string *string*

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description ASCII string for DHCP option

String Length 1 to 127

Introduced 16.0.R4

Notes This element is part of a choice

duration *number*

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description DHCP option as time duration.

Range 10 to 315446399

Units seconds

Introduced 16.0.R4

Notes This element is part of a choice

empty

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description Empty DHCP option.

Introduced 16.0.R1

Notes This element is part of a choice

hex-string *string*

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description DHCP option as hexadecimal string

String Length 1 to 256

Introduced 16.0.R4

Notes This element is part of a choice

ipv4-address *ipv4-address*

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description DHCP option as a list of IPv4 addresses.

Max. Elements 4

Introduced 16.0.R4

Notes This element is part of a choice

netbios-node-type *keyword*

Context **configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool option** (*number* | *keyword*)

Description DHCP option as NetBIOS node type.

Options b-node, p-node, m-node, h-node

Introduced 16.0.R4

Notes This element is part of a choice

standby-ip-lifetime *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool**
Description	The lifetime of the standby IP addresses
Range	300 to 315446399
Default	21600
Units	seconds
Introduced	16.0.R4

subnet

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool**
Description	Enter the subnet context
Introduced	16.0.R4

end *ipv4-unicast-address*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool subnet**
Description	End address of the range used for dynamic IP address allocation
Default	192.168.0.254
Introduced	16.0.R4

prefix *ipv4-prefix-with-host-bits*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool subnet**
Description	Prefix and default-gateway to be used inside the home
Default	192.168.0.1/24
Introduced	16.0.R4

start *ipv4-unicast-address*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **dhcp-pool subnet**
Description	Start address of the range used for dynamic IP address allocation
Default	192.168.0.2
Introduced	16.0.R4

hold-time *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	The time to hold on to a BRG after it went down
Range	0 | 30 to 2592000
Default	0
Units	seconds
Introduced	16.0.R4

initial-hold-time *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	The minimum time to hold on to a BRG after creation, even if no devices are linked to it yet
Range	0 to 900
Default	300
Units	seconds
Introduced	16.0.R4

radius-authentication

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Enter the radius-authentication context
Introduced	16.0.R4

password *encrypted-leaf*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **radius-authentication**
Description	Password used for authentication
String Length	1 to 114
Introduced	16.0.R4

server-policy *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **radius-authentication**
Description	Radius servers to be used for authentication
Reference	configure **aaa radius server-policy** *string*
Introduced	16.0.R4

radius-proxy-server [router-instance] *string* **name** *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Enter the radius-proxy-server context
Max. Elements	4
Introduced	16.0.R4

[router-instance] *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **radius-proxy-server** *string* **name** *string*
Description	router-instance
Introduced	16.0.R4
Notes	This element is part of a list key

name *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string* **radius-proxy-server** *string* **name** *string*
Description	server-name
String Length	1 to 32
Introduced	16.0.R4
Notes	This element is part of a list key

sla-profile-string *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Default SLA profile string on BRG level, overridable via AAA
String Length	0 to 32
Introduced	16.0.R4

sub-profile-string *string*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Default subscriber profile string on BRG level, overridable via AAA
String Length	0 to 32
Introduced	16.0.R4

uplink-initial-wait *number*

Context	**configure subscriber-mgmt vrgw brg-profile** *string*
Description	Time needed in case of a non-routed uplink to block host set-up while waiting for the uplink to become operational
Range	10 to 300
Default	30
Units	seconds
Introduced	16.0.R4

lanext

Context	**configure subscriber-mgmt vrgw**
Description	Enter the lanext context
Introduced	16.0.R1

router-target-as-number *number*

Context	**configure subscriber-mgmt vrgw lanext**
Description	AS number that derives the route target and distinguisher for vRGW LAN Extension bridge domains
Range	1 to 65535
Introduced	16.0.R1

wlan-gw

Context	**configure subscriber-mgmt**
Description	Enter the wlan-gw context
Introduced	16.0.R4

virtual-chassis-identifier *string*

Context	**configure subscriber-mgmt wlan-gw**
Description	WLAN Gateway virtual chassis ID or dual homing key
String Length	1 to 16
Introduced	16.0.R4

38 system Commands

configure
- — **system**
  - — **alarm-contact-in-power** *boolean*
  - — **alarm-contact-input** *number*
    - — **admin-state** *keyword*
    - — **clear-message** *string*
    - — **description** *string*
    - — **normal-state** *keyword*
    - — **trigger-message** *string*
  - — **alarms**
    - — **admin-state** *keyword*
    - — **max-cleared** *number*
  - — **allow-boot-license-violations** *boolean*
  - — **bluetooth**
    - — **advertising-timeout** *number*
    - — **device** *mac-address*
      - — **description** *string*
    - — **module** *cpm-card-slot*
      - — **provisioned-identifier** *string*
    - — **pairing-button** *boolean*
    - — **passkey** *string*
    - — **power** *keyword*
  - — **boot-bad-exec** *url*
  - — **boot-good-exec** *url*
  - — **central-frequency-clock**
    - — **bits**
      - — **input**
        - — **admin-state** *keyword*
      - — **interface-type** *keyword*
      - — **output**
        - — **admin-state** *keyword*
        - — **line-length** *keyword*
        - — **ql-minimum** *keyword*
        - — **source** *keyword*
        - — **squelch** *boolean*
      - — **ql-override** *keyword*
      - — **ssm-bit** *number*
    - — **ptp**
      - — **admin-state** *keyword*
      - — **ql-override** *keyword*
    - — **ql-minimum** *keyword*
    - — **ql-selection** *boolean*
    - — **ref-order**
      - — **first** *keyword*
      - — **fourth** *keyword*
      - — **second** *keyword*
      - — **third** *keyword*
    - — **ref1**
      - — **admin-state** *keyword*
      - — **bits-interface-type** *keyword*

- — **ql-override** *keyword*
- — **source-bits** *slot-mda*
- — **source-port** *string*
- — **ssm-bit** *number*
- — **ref2**
  - — **admin-state** *keyword*
  - — **bits-interface-type** *keyword*
  - — **ql-override** *keyword*
  - — **source-bits** *slot-mda*
  - — **source-port** *string*
  - — **ssm-bit** *number*
- — **revert** *boolean*
- — **wait-to-restore** *number*

- — **clli-code** *clli-description*
- — **congestion-management** *boolean*
- — **contact** *string*
- — **coordinates** *string*
- — **cpm-http-redirect**
  - — **optimized-mode** *boolean*
- — **cron**
  - — **schedule** *string* **owner** *string*
    - — **admin-state** *keyword*
    - — **count** *number*
    - — **day-of-month** *number*
    - — **description** *string*
    - — **end-time**
      - — **date-and-time** *date-and-time*
      - — **day** *keyword*
      - — **time** *hours-minutes-twenty-four*
    - — **hour** *number*
    - — **interval** *number*
    - — **minute** *number*
    - — **month** (*keyword* | *number*)
    - — **script-policy**
      - — **name** *string*
      - — **owner** *string*
    - — **type** *keyword*
    - — **weekday** (*keyword* | *number*)
- — **dhcp6**
  - — **adv-noaddrs-global** *keyword*
- — **dns**
  - — **address-pref** *keyword*
  - — **dnssec**
    - — **ad-validation** *keyword*
- — **efm-oam**
  - — **dying-gasp-tx-on-reset** *boolean*
  - — **grace-tx** *boolean*
- — **eth-cfm**
  - — **grace** *boolean*
  - — **md-auto-id**
    - — **ma-index-range**
      - — **end** *number*
      - — **start** *number*
    - — **md-index-range**

```
            — end number
            — start number
        — redundancy
            — mc-lag
                — propagate-hold-time (number | keyword)
                — standby-mep boolean
        — sender-id
            — local-name string
            — type keyword
        — slm
            — inactivity-timer number
    — grpc
        — admin-state keyword
        — allow-unsecure-connection
        — gnmi
            — admin-state keyword
            — auto-config-save boolean
        — max-msg-size number
        — rib-api
            — admin-state keyword
            — purge-timeout number
        — tcp-keepalive
            — admin-state keyword
            — idle-time number
            — interval number
            — retries number
        — tls-server-profile string
    — icmp-vse boolean
    — ip
        — allow-qinq-network-interface boolean
        — enforce-unique-if-index boolean
    — l2tp
        — non-multi-chassis-tunnel-id-range
            — end number
            — start number
    — lacp
        — system-priority number
    — lldp
        — admin-state keyword
        — message-fast-tx number
        — message-fast-tx-init number
        — notification-interval number
        — reinit-delay number
        — tx-credit-max number
        — tx-hold-multiplier number
        — tx-interval number
    — load-balancing
        — l2tp-load-balancing boolean
        — l4-load-balancing boolean
        — lsr-load-balancing keyword
        — mc-enh-load-balancing boolean
        — service-id-lag-hashing boolean
        — system-ip-load-balancing boolean
    — location string
```

```
— login-control
    — exponential-backoff boolean
    — ftp
        — inbound-max-sessions number
    — idle-timeout (keyword | number)
    — login-banner boolean
    — login-scripts
        — global-script string
        — per-user-script
            — file-name filename
            — user-directory string
    — motd
        — text string
        — url string
    — pre-login-message
        — message string
        — name boolean
    — ssh
        — graceful-shutdown boolean
        — inbound-max-sessions number
        — outbound-max-sessions number
        — ttl-security number
    — telnet
        — graceful-shutdown boolean
        — inbound-max-sessions number
        — outbound-max-sessions number
        — ttl-security number
— management-interface
    — cli
        — classic-cli
            — allow-immediate boolean
            — rollback
                — local-checkpoints number
                — location url
                — remote-checkpoints number
                — rescue
                    — location url
        — cli-engine keyword
        — md-cli
            — auto-config-save boolean
            — environment
                — command-completion
                    — enter boolean
                    — space boolean
                    — tab boolean
                — console
                    — length number
                    — width number
                — message-severity-level
                    — cli keyword
                — more boolean
                — progress-indicator
                    — admin-state keyword
                    — delay number
```

- **type** *keyword*
- **prompt**
- **context** *boolean*
- **newline** *boolean*
- **timestamp** *boolean*
- **uncommitted-changes-indicator** *boolean*
- **time-display** *keyword*
- **configuration-mode** *keyword*
- **configuration-save**
- **configuration-backups** *number*
- **netconf**
- **admin-state** *keyword*
- **auto-config-save** *boolean*
- **capabilities**
- **candidate** *boolean*
- **writable-running** *boolean*
- **schema-path** *url*
- **snmp**
- **admin-state** *keyword*
- **engine-id** *string*
- **general-port** *number*
- **packet-size** *number*
- **streaming**
- **admin-state** *keyword*
- **yang-modules**
- **base-r13-modules** *boolean*
- **nokia-combined-modules** *boolean*
- **nokia-modules** *boolean*
- **openconfig-modules** *boolean*
- **mixed-mode** *boolean*
- **name** *string*
- **persistence**
- **ancp**
- **description** *string*
- **location** *keyword*
- **application-assurance**
- **description** *string*
- **location** *keyword*
- **dhcp-server**
- **description** *string*
- **location** *keyword*
- **nat-port-forwarding**
- **description** *string*
- **location** *keyword*
- **options**
- **dhcp-leasetime-threshold** *number*
- **python-policy-cache**
- **description** *string*
- **location** *keyword*
- **subscriber-mgmt**
- **description** *string*
- **location** *keyword*
- **power-management power-zone** *number*
- **mode** *keyword*

- **power-safety-alert** *number*
- **power-safety-level** *number*
- **ptp**
  - **admin-state** *keyword*
  - **anno-rx-timeout** *number*
  - **clock-type** *keyword*
  - **domain** *number*
  - **local-priority** *number*
  - **log-anno-interval** *number*
  - **network-type** *keyword*
  - **port** *string*
    - **address** *mac-address*
    - **admin-state** *keyword*
    - **local-priority** *number*
    - **log-delay-interval** *number*
    - **log-sync-interval** *number*
    - **master-only** *boolean*
  - **priority1** *number*
  - **priority2** *number*
  - **profile** *keyword*
  - **router** *string*
    - **admin-state** *keyword*
    - **peer** *ipv4-unicast-address*
      - **admin-state** *keyword*
      - **local-priority** *number*
      - **log-sync-interval** *number*
    - **peer-limit** *number*
- **script-control**
  - **script** *string* **owner** *string*
    - **admin-state** *keyword*
    - **description** *string*
    - **location** *string*
  - **script-policy** *string* **owner** *string*
    - **admin-state** *keyword*
    - **expire-time** (*number* | *keyword*)
    - **lifetime** (*number* | *keyword*)
    - **max-completed** *number*
    - **results** *string*
    - **script**
      - **name** *string*
      - **owner** *string*
- **security**
  - **aaa**
    - **cli-session-group** *string*
      - **combined-max-sessions** *number*
      - **description** *string*
      - **ssh-max-sessions** *number*
      - **telnet-max-sessions** *number*
    - **health-check** (*number* | *keyword*)
    - **local-profiles**
      - **profile** *string*
        - **cli-session-group** *string*
        - **combined-max-sessions** *number*
        - **default-action** *keyword*

- **entry** *number*
  - **action** *keyword*
  - **description** *string*
  - **match** *string*
- **grpc**
  - **rpc-authorization**
    - **gnmi-capabilities** *keyword*
    - **gnmi-get** *keyword*
    - **gnmi-set** *keyword*
    - **gnmi-subscribe** *keyword*
    - **rib-api-getversion** *keyword*
    - **rib-api-modify** *keyword*
- **netconf**
  - **base-op-authorization**
    - **kill-session** *boolean*
    - **lock** *boolean*
- **ssh-max-sessions** *number*
- **telnet-max-sessions** *number*

- **remote-servers**
  - **ldap**
    - **admin-state** *keyword*
    - **public-key-authentication** *boolean*
    - **server** *number*
      - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
        - **port** *number*
      - **admin-state** *keyword*
      - **bind-authentication**
        - **password** *encrypted-leaf*
        - **root-dn** *string*
      - **search**
        - **base-dn** *string*
      - **server-name** *string*
      - **tls-profile** *string*
    - **server-retry** *number*
    - **server-timeout** *number*
    - **use-default-template** *boolean*
  - **radius**
    - **access-algorithm** *keyword*
    - **accounting** *boolean*
    - **accounting-port** *number*
    - **admin-state** *keyword*
    - **authorization** *boolean*
    - **interactive-authentication** *boolean*
    - **port** *number*
    - **server** *number*
      - **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
      - **secret** *encrypted-leaf*
    - **server-retry** *number*
    - **server-timeout** *number*
    - **use-default-template** *boolean*
  - **tacplus**
    - **accounting**
      - **record-type** *keyword*
    - **admin-control**

```
            — tacplus-map-to-priv-lvl number
         — admin-state keyword
         — authorization
            — use-priv-lvl boolean
         — interactive-authentication boolean
         — priv-lvl-map
            — priv-lvl number
               — user-profile-name string
         — server number
            — address (ipv4-address-no-zone | ipv6-address-no-zone)
            — port number
            — secret encrypted-leaf
         — server-timeout number
         — use-default-template boolean
      — user-template keyword
         — access
            — console boolean
            — ftp boolean
            — grpc boolean
            — netconf boolean
         — console
            — login-exec string
         — home-directory (sat-url | cflash-without-slot-url)
         — profile string
         — restricted-to-home boolean
   — cli-script
      — authorization
         — cron
            — cli-user string
         — event-handler
            — cli-user string
         — vsd
            — cli-user string
   — cpm-filter
      — default-action keyword
      — ip-filter
         — admin-state keyword
         — entry number
            — action
               — accept
               — default
               — drop
               — queue string
            — description string
            — log string
            — match
               — dscp keyword
               — dst-ip
                  — address (string | string)
                  — ip-prefix-list string
                  — mask ipv4-address
               — dst-port
                  — eq number
                  — mask number
```

```
                    — port-list string
                    — range
                        — end number
                        — start number
                — fragment keyword
                — icmp
                    — code number
                    — type number
                — ip-option
                    — mask number
                    — type number
                — multiple-option boolean
                — option-present boolean
                — port
                    — eq number
                    — mask number
                    — port-list string
                    — range
                        — end number
                        — start number
                — protocol (number | keyword)
                — router-instance string
                — src-ip
                    — address (string | string)
                    — ip-prefix-list string
                    — mask ipv4-address
                — src-port
                    — eq number
                    — mask number
                    — port-list string
                    — range
                        — end number
                        — start number
                — tcp-flags
                    — ack boolean
                    — syn boolean
    — ipv6-filter
        — admin-state keyword
        — entry number
            — action
                — accept
                — default
                — drop
                — queue string
            — description string
            — log string
            — match
                — dscp keyword
                — dst-ip
                    — address (string | string)
                    — ipv6-prefix-list string
                    — mask ipv6-address
                — dst-port
                    — eq number
```

```
            — mask number
            — port-list string
            — range
                — end number
                — start number
        — extension-header
            — hop-by-hop boolean
        — flow-label number
        — fragment keyword
        — icmp
            — code number
            — type number
        — next-header (number | keyword)
        — port
            — eq number
            — mask number
            — port-list string
            — range
                — end number
                — start number
        — router-instance string
        — src-ip
            — address (string | string)
            — ipv6-prefix-list string
            — mask ipv6-address
        — src-port
            — eq number
            — mask number
            — port-list string
            — range
                — end number
                — start number
        — tcp-flags
            — ack boolean
            — syn boolean
— mac-filter
    — admin-state keyword
    — entry number
        — action
            — accept
            — default
            — drop
            — queue string
        — description string
        — log string
        — match
            — cfm-opcode
                — eq number
                — gt number
                — lt number
                — range
                    — end number
                    — start number
            — dst-mac
```

```
                    — address mac-address
                    — mask mac-address
                — etype etype-value
                — frame-type keyword
                — llc-dsap
                    — dsap number
                    — mask number
                — llc-ssap
                    — mask number
                    — ssap number
                — service string
                — src-mac
                    — address mac-address
                    — mask mac-address
    — cpm-queue
        — queue number
            — cbs number
            — mbs number
            — rate
                — cir (number | keyword)
                — pir (number | keyword)
    — cpu-protection
        — ip-src-monitoring
            — included-protocols
                — dhcp boolean
                — gtp boolean
                — icmp boolean
                — igmp boolean
        — link-specific-rate (number | keyword)
        — policy number
            — alarm boolean
            — description string
            — eth-cfm
                — entry number
                    — level start number end number
                    — opcode start number end number
                    — pir (number  |  keyword)
            — out-profile-rate
                — log-events boolean
                — pir (number | keyword)
            — overall-rate (number | keyword)
            — per-source-parameters
                — ip-src-monitoring
                    — limit-dhcp-ci-addr-zero boolean
            — per-source-rate (number | keyword)
        — port-overall-rate
            — action-low-priority boolean
            — pir (number | keyword)
        — protocol-protection
            — allow-sham-links boolean
            — block-pim-tunneled boolean
    — dist-cpu-protection
        — policy string
            — description string
```

```
        — local-monitoring-policer string
            — description string
            — exceed-action keyword
            — log-events keyword
            — rate
                — kbps
                    — limit (keyword | number)
                    — mbs number
                — packets
                    — initial-delay number
                    — limit (keyword | number)
                    — within number
        — protocol keyword
            — dynamic-parameters
                — detection-time number
                — exceed-action
                    — action keyword
                    — hold-down (keyword | number)
                — log-events keyword
                — rate
                    — kbps
                        — limit (keyword | number)
                        — mbs number
                    — packets
                        — initial-delay number
                        — limit (keyword | number)
                        — within number
            — enforcement
                — dynamic
                    — mon-policer-name string
                — dynamic-local-mon-bypass
                — static
                    — policer-name string
        — static-policer string
            — description string
            — detection-time number
            — exceed-action
                — action keyword
                — hold-down (keyword | number)
            — log-events keyword
            — rate
                — kbps
                    — limit (keyword | number)
                    — mbs number
                — packets
                    — initial-delay number
                    — limit (keyword | number)
                    — within number
    — dot1x
        — admin-state keyword
        — radius-policy string
            — admin-state keyword
            — retry number
            — server number
```

- **accounting-port** *number*
- **address** *ipv4-unicast-address*
- **authentication-port** *number*
- **secret** *encrypted-leaf*
- **type** *keyword*

- **source-address** *ipv4-unicast-address*
- **timeout** *number*

- **ftp-server** *boolean*
- **hash-control**
  - **management-interface**
    - **classic-cli**
      - **read-algorithm** *keyword*
      - **write-algorithm** *keyword*
    - **grpc**
      - **hash-algorithm** *keyword*
    - **md-cli**
      - **hash-algorithm** *keyword*
    - **netconf**
      - **hash-algorithm** *keyword*
- **keychains**
  - **keychain** *string*
    - **admin-state** *keyword*
    - **bidirectional**
      - **entry** *number*
        - **admin-state** *keyword*
        - **algorithm** *keyword*
        - **authentication-key** *encrypted-leaf*
        - **begin-time** *date-and-time*
        - **option** *keyword*
        - **tolerance** (*number* | *keyword*)
    - **description** *string*
    - **receive**
      - **entry** *number*
        - **admin-state** *keyword*
        - **algorithm** *keyword*
        - **authentication-key** *encrypted-leaf*
        - **begin-time** *date-and-time*
        - **end-time** *date-and-time*
        - **tolerance** (*number* | *keyword*)
    - **send**
      - **entry** *number*
        - **admin-state** *keyword*
        - **algorithm** *keyword*
        - **authentication-key** *encrypted-leaf*
        - **begin-time** *date-and-time*
    - **tcp-option-number**
      - **receive** *keyword*
      - **send** *keyword*
- **management**
  - **allow-ssh** *boolean*
  - **allow-telnet** *boolean*
  - **allow-telnet6** *boolean*
- **management-access-filter**
  - **ip-filter**

```
        — admin-state keyword
        — default-action keyword
        — entry number
            — action keyword
            — description string
            — log-events boolean
            — match
                — dst-port
                    — mask number
                    — port number
                — mgmt-port
                    — cpm
                    — lag-id number
                    — port-id port
                — protocol (number | keyword)
                — router-instance string
                — src-ip
                    — address (string | string)
                    — mask ipv4-address
    — ipv6-filter
        — admin-state keyword
        — default-action keyword
        — entry number
            — action keyword
            — description string
            — log-events boolean
            — match
                — dst-port
                    — mask number
                    — port number
                — flow-label number
                — mgmt-port
                    — cpm
                    — lag-id number
                    — port-id port
                — next-header (number | keyword)
                — router-instance string
                — src-ip
                    — address (string | string)
                    — mask ipv6-address
    — mac-filter
        — admin-state keyword
        — default-action keyword
        — entry number
            — action keyword
            — description string
            — log-events boolean
            — match
                — cfm-opcode
                    — eq number
                    — gt number
                    — lt number
                    — range
                        — end number
```

```
                        — start number
                    — dot1p
                        — mask number
                        — priority number
                    — dst-mac
                        — address mac-address
                        — mask mac-address
                    — etype etype-value
                    — frame-type keyword
                    — llc-dsap
                        — dsap number
                        — mask number
                    — llc-ssap
                        — mask number
                        — ssap number
                    — service service-name
                    — snap-oui keyword
                    — snap-pid number
                    — src-mac
                        — address mac-address
                        — mask mac-address
    — per-peer-queuing boolean
    — pki
        — ca-profile string
            — admin-state keyword
            — auto-crl-update
                — admin-state keyword
                — crl-urls
                    — url-entry number
                        — transmission-profile string
                        — url string
                — periodic-update-interval number
                — pre-update-time number
                — retry-interval number
                — schedule-type keyword
            — cert-file pki-file-name
            — cmpv2
                — accept-unprotected-message
                    — error-message boolean
                    — pkiconf-message boolean
                — always-set-sender-for-ir boolean
                — http
                    — response-timeout number
                    — version keyword
                — key-list
                    — key string
                        — password encrypted-leaf
                — response-signing-cert pki-file-name
                — same-recipient-nonce-for-poll-request boolean
                — url
                    — service-name service-name
                    — url-string string
            — crl-file pki-file-name
            — description string
```

```
        — ocsp
            — responder-url string
            — service-name service-name
        — revocation-check keyword
    — certificate-display-format keyword
    — certificate-expiration-warning
        — hours number
        — repeat-hours number
    — common-name-list string
        — common-name number
            — cn-type keyword
            — cn-value regular-expression-not-all-spaces
    — crl-expiration-warning
        — hours number
        — repeat-hours number
    — maximum-cert-chain-depth number
— snmp
    — access string context string security-model keyword security-level keyword
        — notify string
        — prefix-match keyword
        — read string
        — write string
    — attempts
        — count number
        — lockout number
        — time number
    — community encrypted-leaf
        — access-permissions keyword
        — source-access-list string
        — version keyword
    — source-access-list string
        — source-host string
            — address (ipv4-address-no-zone | ipv6-address-no-zone)
    — usm-community encrypted-leaf
        — group string
        — source-access-list string
    — view string subtree string
        — mask string
        — type keyword
— source-address
    — ipv4 keyword
        — address ipv4-address
        — interface-name interface-name
    — ipv6 keyword
        — address ipv6-address
— ssh
    — client-cipher-list-v1
        — cipher number
            — name keyword
    — client-cipher-list-v2
        — cipher number
            — name keyword
    — client-mac-list-v2
        — mac number
```

```
            — name keyword
        — key-re-exchange
            — client
                — admin-state keyword
                — mbytes (number | keyword)
                — minutes (number | keyword)
            — server
                — admin-state keyword
                — mbytes (number | keyword)
                — minutes (number | keyword)
        — preserve-key boolean
        — server-admin-state keyword
        — server-cipher-list-v1
            — cipher number
                — name keyword
        — server-cipher-list-v2
            — cipher number
                — name keyword
        — server-mac-list-v2
            — mac number
                — name keyword
        — version keyword
    — system-passwords
        — admin-password hashed-leaf
        — vsd-password hashed-leaf
    — tech-support
        — ts-location (ts-sat-url | ts-cflash-url | string)
    — telnet-server boolean
    — telnet6-server boolean
    — tls
        — cert-profile string
            — admin-state keyword
            — entry number
                — certificate-file string
                — key-file string
                — send-chain
                    — ca-profile string
        — client-cipher-list string
            — cipher number
                — name keyword
        — client-tls-profile string
            — admin-state keyword
            — cert-profile string
            — cipher-list string
            — trust-anchor-profile string
        — server-cipher-list string
            — cipher number
                — name keyword
        — server-tls-profile string
            — admin-state keyword
            — authenticate-client
                — common-name-list string
                — trust-anchor-profile string
            — cert-profile string
```

```
        — cipher-list string
        — tls-re-negotiate-timer number
    — trust-anchor-profile string
        — trust-anchor string
— user-params
    — attempts
        — count number
        — lockout number
        — time number
    — authentication-order
        — exit-on-reject boolean
        — order keyword
    — local-user
        — password
            — aging number
            — complexity-rules
                — allow-user-name boolean
                — credits
                    — lowercase number
                    — numeric number
                    — special-character number
                    — uppercase number
                — minimum-classes number
                — minimum-length number
                — repeated-characters number
                — required
                    — lowercase number
                    — numeric number
                    — special-character number
                    — uppercase number
            — history-size number
            — minimum-age number
            — minimum-change number
        — user string
            — access
                — console boolean
                — ftp boolean
                — grpc boolean
                — netconf boolean
                — snmp boolean
            — cli-engine keyword
            — console
                — cannot-change-password boolean
                — login-exec (string | string | string | string)
                — member string
                — new-password-at-login boolean
            — home-directory (sat-url | cflash-without-slot-url)
            — password hashed-leaf
            — public-keys
                — ecdsa
                    — ecdsa-key number
                        — description string
                        — key-value string
                — rsa
```

```
                        — rsa-key number
                            — description string
                            — key-value string
                    — restricted-to-home boolean
                    — snmp
                        — authentication
                            — authentication-key encrypted-leaf-hex-without-prefix
                            — authentication-protocol keyword
                            — privacy
                                — privacy-key encrypted-leaf-hex-without-prefix
                                — privacy-protocol keyword
                        — group string
        — vprn-network-exceptions
            — count number
            — window number
    — selective-fib boolean
    — software-repository string
        — description string
        — primary-location string
        — secondary-location string
        — tertiary-location string
    — thresholds
        — cflash-cap-alarm-percent thresholds-cflash-url
            — falling-threshold number
            — interval number
            — rising-threshold number
            — rmon-event-type keyword
            — startup-alarm keyword
        — cflash-cap-warn-percent thresholds-cflash-url
            — falling-threshold number
            — interval number
            — rising-threshold number
            — rmon-event-type keyword
            — startup-alarm keyword
        — kb-memory-use-alarm
            — falling-threshold number
            — interval number
            — rising-threshold number
            — rmon-event-type keyword
            — startup-alarm keyword
        — kb-memory-use-warn
            — falling-threshold number
            — interval number
            — rising-threshold number
            — rmon-event-type keyword
            — startup-alarm keyword
        — rmon
            — alarm number
                — falling-event number
                — falling-threshold number
                — interval number
                — owner string
                — rising-event number
                — rising-threshold number
```

```
            — sample-type keyword
            — startup-alarm keyword
            — variable-oid string
         — event number
            — description string
            — event-type keyword
            — owner string
   — time
      — dst-zone string
         — end
            — day keyword
            — hours-minutes hours-minutes-twenty-four
            — month keyword
            — week keyword
         — offset number
         — start
            — day keyword
            — hours-minutes hours-minutes-twenty-four
            — month keyword
            — week keyword
      — ntp
         — admin-state keyword
         — authentication-check boolean
         — authentication-key number
            — key encrypted-leaf
            — type keyword
         — broadcast string interface-name interface-name
            — key-id string
            — ttl number
            — version number
         — broadcast-client string interface-name interface-name
            — authenticate boolean
         — multicast
            — key-id string
            — version number
         — multicast-client
            — authenticate boolean
         — ntp-server
            — authenticate boolean
         — peer (ipv4-address-no-zone | ipv6-address-no-zone) router-instance string
            — key-id string
            — prefer boolean
            — version number
         — server (union | keyword) router-instance string
            — key-id string
            — prefer boolean
            — version number
      — prefer-local-time boolean
      — sntp
         — admin-state keyword
         — server (ipv4-address-no-zone | ipv6-address-no-zone)
            — interval number
            — prefer boolean
            — version number
```

- **sntp-state** *keyword*
- **zone**
  - **non-standard**
    - **name** *string*
    - **offset** *hours-minutes-with-range*
  - **standard**
    - **name** *keyword*
- **transmission-profile** *string*
  - **ipv4-source-address** *ipv4-unicast-address*
  - **ipv6-source-address** *ipv6-address*
  - **redirection** *number*
  - **retry** *number*
  - **router-instance** *router-instance-base-management-vprn-loose*
  - **timeout** *number*

38.1 system Command Descriptions

system

Context	**configure**
Description	Enter the system context
Introduced	16.0.R1

alarm-contact-in-power *boolean*

Context	**configure system**
Description	Supply +24V output power on the +24DC pin of the Alarm Interface Port of the CPM
Default	false
Introduced	16.0.R1

alarm-contact-input [input-pin-number] *number*

Context	**configure system**
Description	Enter the alarm-contact-input context
Introduced	16.0.R1

[input-pin-number] *number*

Context	**configure system alarm-contact-input** *number*
Description	PIN of the alarm contact input
Range	1 to 4
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system alarm-contact-input** *number*
Description	Administrative state of the alarm contact input
Default	disable
Options	enable, disable
Introduced	16.0.R1

clear-message *string*

Context	**configure system alarm-contact-input** *number*
Description	Text message sent in the log event when the input returns back to normal state
String Length	1 to 80
Default	Alarm Input Cleared
Introduced	16.0.R1

description *string*

Context	**configure system alarm-contact-input** *number*
Description	Text description
String Length	1 to 160
Introduced	16.0.R1

normal-state *keyword*

Context	**configure system alarm-contact-input** *number*
Description	Alarm normal state
Default	open
Options	open, closed
Introduced	16.0.R1

trigger-message *string*

Context	**configure system alarm-contact-input** *number*
Description	Text message sent in the log event when the input changes from normal state
String Length	1 to 80
Default	Alarm Input Triggered
Introduced	16.0.R1

alarms

Context	**configure system**
Description	Enter the alarms context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system alarms**
Description	Specifies whether or not alarm management is enabled on the system.
Default	enable
Options	enable, disable
Introduced	16.0.R1

max-cleared *number*

Context	**configure system alarms**
Description	Configure the maximum number of cleared alarms.
Range	0 to 500
Default	500
Introduced	16.0.R1

allow-boot-license-violations *boolean*

Context	**configure system**
Description	Configures whether the system should allow successful execution of the boot-up configuration file even if it contains license violations. When enabled, the system will not error on any configuration that causes a license violation permitting the system to come into service. However, if violations are detected the system will reboot after one hour if the violations are not fixed.
Default	true
Introduced	16.0.R1

bluetooth

Context	**configure system**
Description	Enter the bluetooth context
Introduced	16.0.R1

advertising-timeout *number*

Context	**configure system bluetooth**
Description	Bluetooth advertising timeout.
Range	30 to 3600
Units	seconds
Introduced	16.0.R1

device [mac-address] *mac-address*

Context	**configure system bluetooth**
Description	Enter the device context
Introduced	16.0.R1

[mac-address] *mac-address*

Context	**configure system bluetooth device** *mac-address*
Description	Bluetooth client device MAC address.
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system bluetooth device** *mac-address*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

module [cpm-slot] *cpm-card-slot*

Context	**configure system bluetooth**
Description	Enter the module context
Introduced	16.0.R1

[cpm-slot] *cpm-card-slot*

Context	**configure system bluetooth module** *cpm-card-slot*
Description	CPM slot on which the module resides.
Introduced	16.0.R1
Notes	This element is part of a list key

provisioned-identifier *string*

Context	**configure system bluetooth module** *cpm-card-slot*
Description	The user configured identifier for this Bluetooth module.
String Length	1 to 32
Introduced	16.0.R1

pairing-button *boolean*

Context	**configure system bluetooth**
Description	Enable/Disable the pairing button.
Default	false
Introduced	16.0.R1

passkey *string*

Context	**configure system bluetooth**
Description	Bluetooth passkey. Must be comprised of 6 digits (0-9).
String Length	6
Default	123456
Introduced	16.0.R1

power *keyword*

Context	**configure system bluetooth**
Description	Bluetooth module(s) power state.
Options	manual, automatic
Introduced	16.0.R1

boot-bad-exec *url*

Context	**configure system**
Description	Location and name of CLI script file executed after a failed boot-up configuration file execution
String Length	1 to 180
Introduced	16.0.R1

boot-good-exec *url*

Context	**configure system**
Description	Location and name of CLI script file executed after a successful boot-up configuration file execution
String Length	1 to 180
Introduced	16.0.R1

central-frequency-clock

Context	**configure system**
Description	Enter the central-frequency-clock context
Introduced	16.0.R1

bits

Context	**configure system central-frequency-clock**
Description	Enter the bits context
Introduced	16.0.R1

input

Context	**configure system central-frequency-clock bits**
Description	Enter the input context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system central-frequency-clock bits input**
Description	Administrative state of BITS input timing reference
Default	disable
Options	enable, disable
Introduced	16.0.R1

interface-type *keyword*

Context	**configure system central-frequency-clock bits**
Description	Interface type of the BITS timing reference
Default	ds1-esf
Options	ds1-esf, ds1-sf, e1-pcm30crc, e1-pcm31crc, g703-2048khz
Introduced	16.0.R1

output

Context	**configure system central-frequency-clock bits**
Description	Enter the output context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system central-frequency-clock bits output**
Description	Administrative state of the BITS output timing reference
Options	enable, disable
Introduced	16.0.R1

line-length *keyword*

Context	**configure system central-frequency-clock bits output**
Description	Line length for the BITS output timing reference
Options	length-not-applicable, 110, 220, 330, 440, 550, 660
Introduced	16.0.R1

ql-minimum *keyword*

Context	**configure system central-frequency-clock bits output**
Description	Minimum acceptable QL value for signal to be considered for selection for the BITSout port
Default	unused
Options	unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec, eec1, eec2
Introduced	16.0.R1

source *keyword*

Context	**configure system central-frequency-clock bits output**
Description	Source of the BITS output timing reference
Default	line-ref
Options	line-ref, internal-clock
Introduced	16.0.R1

squelch *boolean*

Context	**configure system central-frequency-clock bits output**
Description	Squelch the signal of the BITS output timing reference
Default	false
Introduced	16.0.R1

ql-override *keyword*

Context	**configure system central-frequency-clock bits**
Description	Quality level of a timing reference that overrides any value provided by the reference's SSM process
Default	unused
Options	unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec
Introduced	16.0.R1

ssm-bit *number*

Context	**configure system central-frequency-clock bits**
Description	SSM information conveyed by sa-bit
Range	4 to 8
Default	8
Introduced	16.0.R1

ptp

Context	**configure system central-frequency-clock**
Description	Enter the ptp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system central-frequency-clock ptp**
Description	Administrative state of the PTP timing reference
Default	disable
Options	enable, disable
Introduced	16.0.R1

ql-override *keyword*

Context	**configure system central-frequency-clock ptp**
Description	Quality level of a timing reference that overrides any value provided by the reference's SSM process
Default	unused
Options	unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec
Introduced	16.0.R1

ql-minimum *keyword*

Context	**configure system central-frequency-clock**
Description	Minimum acceptable QL value for signal to be considered for selection by system timing module
Default	unused
Options	unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec, eec1, eec2
Introduced	16.0.R1

ql-selection *boolean*

Context	**configure system central-frequency-clock**
Description	System timing reference and BITS output timing reference
Default	false
Introduced	16.0.R1

ref-order

Context	**configure system central-frequency-clock**
Description	Enter the ref-order context
Introduced	16.0.R1

first *keyword*

Context	**configure system central-frequency-clock ref-order**
Description	Highly preferred timing reference source for the synchronous equipment timing subsystem
Options	ref1, ref2, bits, ptp, none
Introduced	16.0.R1

fourth *keyword*

Context	**configure system central-frequency-clock ref-order**
Description	Fourth preferred timing reference source for the synchronous equipment timing subsystem
Options	ref1, ref2, bits, ptp, none
Introduced	16.0.R1

second *keyword*

Context **configure system central-frequency-clock ref-order**

Description Second preferred timing reference source for the synchronous equipment timing subsystem

Options ref1, ref2, bits, ptp, none

Introduced 16.0.R1

third *keyword*

Context **configure system central-frequency-clock ref-order**

Description Third preferred timing reference source for the synchronous equipment timing subsystem

Options ref1, ref2, bits, ptp, none

Introduced 16.0.R1

ref1

Context **configure system central-frequency-clock**

Description Enter the ref1 context

Introduced 16.0.R1

admin-state *keyword*

Context **configure system central-frequency-clock ref1**

Description Administrative state of the first timing reference

Default disable

Options enable, disable

Introduced 16.0.R1

bits-interface-type *keyword*

Context **configure system central-frequency-clock ref1**

Description Interface type of the BITS timing reference

Default ds1-esf

Options ds1-esf, ds1-sf, e1-pcm30crc, e1-pcm31crc, g703-2048khz

Introduced 16.0.R1

ql-override *keyword*

Context	**configure system central-frequency-clock ref1**
Description	Quality level of a timing reference that overrides any value provided by the reference's SSM process
Default	unused
Options	unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec, eec1, eec2
Introduced	16.0.R1

source-bits *slot-mda*

Context	**configure system central-frequency-clock ref1**
Description	Source bits for the first timing reference
Introduced	16.0.R1

source-port *string*

Context	**configure system central-frequency-clock ref1**
Description	Source port for the first timing reference
Reference	configure **port** *port*
Introduced	16.0.R1

ssm-bit *number*

Context	**configure system central-frequency-clock ref1**
Description	SSM information conveyed by sa-bit
Range	4 to 8
Default	8
Introduced	16.0.R1

ref2

Context	**configure system central-frequency-clock**
Description	Enter the ref2 context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system central-frequency-clock ref2**
Description	Administrative state of the second timing reference
Default	disable
Options	enable, disable
Introduced	16.0.R1

bits-interface-type *keyword*

Context	**configure system central-frequency-clock ref2**
Description	Interface type of the BITS timing reference
Default	ds1-esf
Options	ds1-esf, ds1-sf, e1-pcm30crc, e1-pcm31crc, g703-2048khz
Introduced	16.0.R1

ql-override *keyword*

Context	**configure system central-frequency-clock ref2**
Description	Quality level of a timing reference that overrides any value provided by the reference's SSM process
Default	unused
Options	unused, prs, stu, st2, tnc, st3e, st3, prc, ssua, ssub, sec, eec1, eec2
Introduced	16.0.R1

source-bits *slot-mda*

Context	**configure system central-frequency-clock ref2**
Description	Source bits for the first timing reference
Introduced	16.0.R1

source-port *string*

Context	**configure system central-frequency-clock ref2**
Description	Source port for the first timing reference
Reference	configure **port** *port*
Introduced	16.0.R1

ssm-bit *number*

Context	**configure system central-frequency-clock ref2**
Description	SSM information conveyed by sa-bit
Range	4 to 8
Default	8
Introduced	16.0.R1

revert *boolean*

Context	**configure system central-frequency-clock**
Description	Higher priority re-validated reference source to revert
Default	false
Introduced	16.0.R1

wait-to-restore *number*

Context	**configure system central-frequency-clock**
Description	Time for failed input reference to be valid before using it for BITS output or central clock input
Range	1 to 12
Units	minutes
Introduced	16.0.R1

clli-code *clli-description*

Context	**configure system**
Description	Common Language Location Identifier (CLLI) code value for the system
String Length	11
Introduced	16.0.R1

congestion-management *boolean*

Context	**configure system**
Description	Virtual Service Router congestion management
Default	false
Introduced	16.0.R1

contact *string*

Context	**configure system**
Description	Textual identification of contact person for this managed node, and information on how to contact
String Length	1 to 80
Introduced	16.0.R1

coordinates *string*

Context	**configure system**
Description	Global Positioning System (GPS) coordinates for the system location
String Length	1 to 80
Introduced	16.0.R1

cpm-http-redirect

Context	**configure system**
Description	Enter the cpm-http-redirect context
Introduced	16.0.R1

optimized-mode *boolean*

Context	**configure system cpm-http-redirect**
Description	Optimized mode for CPM HTTP redirect messages
Default	true
Introduced	16.0.R1

cron

Context	**configure system**
Description	Enter the cron context
Introduced	16.0.R1

schedule [schedule-name] *string* **owner** *string*

Context	**configure system cron**
Description	Enter the schedule context
Max. Elements	255
Introduced	16.0.R1

[schedule-name] *string*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Schedule name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

owner *string*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Schedule owner
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Administrative state of the cron schedule
Default	disable
Options	enable, disable
Introduced	16.0.R1

count *number*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Number of times to repeat periodic schedule run
Range	1 to 65535
Introduced	16.0.R1

day-of-month *number*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Days in a month when a schedule runs
Range	-31 to -1 | 1 to 31
Max. Elements	62
Introduced	16.0.R1

description *string*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

end-time

Context	**configure system cron schedule** *string* **owner** *string*
Description	Enter the end-time context
Introduced	16.0.R1

date-and-time *date-and-time*

Context	**configure system cron schedule** *string* **owner** *string* **end-time**
Description	Date and hour and minute to stop triggering this schedule
Introduced	16.0.R1
Notes	This element is part of a choice

day *keyword*

Context	**configure system cron schedule** *string* **owner** *string* **end-time**
Description	Day to stop triggering this schedule
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Introduced	16.0.R1
Notes	This element is part of a choice

time *hours-minutes-twenty-four*

Context	**configure system cron schedule** *string* **owner** *string* **end-time**
Description	Time to stop triggering this schedule
String Length	5
Introduced	16.0.R1
Notes	This element is part of a choice

hour *number*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Hours within a day when a schedule runs
Range	0 to 23
Max. Elements	24
Introduced	16.0.R1

interval *number*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Time between each periodic schedule run
Range	30 to 42949672
Units	seconds
Introduced	16.0.R1

minute *number*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Minutes in an hour when a schedule runs
Range	0 to 59
Max. Elements	60
Introduced	16.0.R1

month (*keyword* | *number*)

Context	**configure system cron schedule** *string* **owner** *string*
Description	Months when a schedule runs
Range	1 to 12
Options	january, february, march, april, may, june, july, august, september, october, november, december
Max. Elements	12
Introduced	16.0.R1

script-policy

Context	**configure system cron schedule** *string* **owner** *string*
Description	Enter the script-policy context
Introduced	16.0.R1

name *string*

Context	**configure system cron schedule** *string* **owner** *string* **script-policy**
Description	Script policy name
String Length	1 to 32
Introduced	16.0.R1

owner *string*

Context	**configure system cron schedule** *string* **owner** *string* **script-policy**
Description	Script policy owner
String Length	1 to 32
Default	TiMOS CLI
Introduced	16.0.R1

type *keyword*

Context	**configure system cron schedule** *string* **owner** *string*
Description	Schedule type
Default	periodic
Options	periodic, calendar, oneshot
Introduced	16.0.R1

weekday (*keyword* | *number*)

Context	**configure system cron schedule** *string* **owner** *string*
Description	Weekdays when the schedule runs
Range	1 to 7
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Max. Elements	7
Introduced	16.0.R1

dhcp6

Context	**configure system**
Description	Enter the dhcp6 context
Introduced	16.0.R4

adv-noaddrs-global *keyword*

Context	**configure system dhcp6**
Description	Specifies the composition of DHCPv6 Advertise Messages in case a DHCP6 application in this system will not assign any addresses to any Identity Association (IA) in a subsequent Request from the client. DHCP6 applications in this system are Server and ESM Relay, which must be set together.
Options	esm-relay, server
Max. Elements	2
Introduced	16.0.R4

dns

Context	**configure system**
Description	Enter the dns context
Introduced	16.0.R1

address-pref *keyword*

Context	**configure system dns**
Description	Preference in DNS address resolving order
Options	ipv4-only, ipv6-first
Introduced	16.0.R1

dnssec

Context	**configure system dns**
Description	Enter the dnssec context
Introduced	16.0.R1

ad-validation *keyword*

Context	**configure system dns dnssec**
Description	Response to DNSSEC validation of presence of AD-bit in responses from DNS servers
Options	fall-through, drop
Introduced	16.0.R1

efm-oam

Context	**configure system**
Description	Enter the efm-oam context
Introduced	16.0.R1

dying-gasp-tx-on-reset *boolean*

Context	**configure system efm-oam**
Description	Allow generation of Information OAM PDU when EFM application receives soft reset notification
Default	false
Introduced	16.0.R1

grace-tx *boolean*

Context	**configure system efm-oam**
Description	Allow sending of EFM OAM grace period messages
Default	false
Introduced	16.0.R1

eth-cfm

Context	**configure system**
Description	Enter the eth-cfm context
Introduced	16.0.R1

grace *boolean*

Context	**configure system eth-cfm**
Description	Allow overall system level capability of grace messaging for ETH-CFM MEPs
Default	true
Introduced	16.0.R1

md-auto-id

Context	**configure system eth-cfm**
Description	Enter the md-auto-id context
Introduced	16.0.R1

ma-index-range

Context	**configure system eth-cfm md-auto-id**
Description	Enter the ma-index-range context
Introduced	16.0.R1

end *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system eth-cfm md-auto-id ma-index-range**
Description	End of the range
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

start *number*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system eth-cfm md-auto-id ma-index-range**
Description	Start of the range
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

md-index-range

Context	**configure system eth-cfm md-auto-id**
Description	Enter the md-index-range context
Introduced	16.0.R1

end *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system eth-cfm md-auto-id md-index-range**
Description	End of the range
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

start *number*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system eth-cfm md-auto-id md-index-range**
Description	Start of the range
Range	1 to max
Introduced	16.0.R1
Notes	This element is mandatory

redundancy

Context **configure system eth-cfm**
Description Enter the redundancy context
Introduced 16.0.R1

mc-lag

Context **configure system eth-cfm redundancy**
Description Enter the mc-lag context
Introduced 16.0.R1

propagate-hold-time (*number* | *keyword*)

Context **configure system eth-cfm redundancy mc-lag**
Description Delay timer value for the fault propagation caused by port, or MC-LAG state changes
Range 1 to 60
Default 1
Units seconds
Options none
Introduced 16.0.R1

standby-mep *boolean*

Context **configure system eth-cfm redundancy mc-lag**
Description Allow MEPs on the standby MC-LAG to act administratively down
Default false
Introduced 16.0.R1

sender-id

Context **configure system eth-cfm**
Description Enter the sender-id context
Introduced 16.0.R1

local-name *string*

Context	**configure system eth-cfm sender-id**
Description	Local name in CFM PDUs
String Length	1 to 45
Introduced	16.0.R1

type *keyword*

Context	**configure system eth-cfm sender-id**
Description	ETH-CFM sender ID to be used in CFM PDUs
Options	system, local
Introduced	16.0.R1

slm

Context	**configure system eth-cfm**
Description	Enter the slm context
Introduced	16.0.R1

inactivity-timer *number*

Context	**configure system eth-cfm slm**
Description	SLR inactivity timer to maintain the stale test data
Range	10 to 100
Default	100
Units	seconds
Introduced	16.0.R1

grpc

Context	**configure system**
Description	Enter the grpc context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system grpc**
Description	Administrative state of gRPC server
Default	disable
Options	enable, disable
Introduced	16.0.R1

allow-unsecure-connection

Context	**configure system grpc**
Description	Server gRPC to run without secured transport protocol
Introduced	16.0.R1
Notes	This element is part of a choice

gnmi

Context	**configure system grpc**
Description	Enter the gnmi context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system grpc gnmi**
Description	Administrative state of gNMI service
Default	enable
Options	enable, disable
Introduced	16.0.R1

auto-config-save *boolean*

Context	**configure system grpc gnmi**
Description	Automatically save the configuration as part of a commit operation
Default	false
Introduced	16.0.R1

max-msg-size *number*

Context	**configure system grpc**
Description	Maximum size of received message
Range	1 to 1024
Default	512
Units	megabytes
Introduced	16.0.R1

rib-api

Context	**configure system grpc**
Description	Enter the rib-api context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure system grpc rib-api**
Description	Administrative state of RibApi service.
Default	disable
Options	enable, disable
Introduced	16.0.R4

purge-timeout *number*

Context	**configure system grpc rib-api**
Description	Number of seconds until stale entries are purged.
Range	1 to 100000
Units	seconds
Introduced	16.0.R4

tcp-keepalive

Context	**configure system grpc**
Description	Enter the tcp-keepalive context
Introduced	16.0.R4

admin-state *keyword*

Context	**configure system grpc tcp-keepalive**
Description	Administrative state of the TCP keep-alive algorithm.
Default	disable
Options	enable, disable
Introduced	16.0.R4

idle-time *number*

Context	**configure system grpc tcp-keepalive**
Description	Number of seconds until the first TCP keep-alive probe is sent.
Range	1 to 100000
Default	600
Units	seconds
Introduced	16.0.R4

interval *number*

Context	**configure system grpc tcp-keepalive**
Description	Number of seconds between TCP keep-alive probes.
Range	1 to 100000
Default	15
Units	seconds
Introduced	16.0.R4

retries *number*

Context	**configure system grpc tcp-keepalive**
Description	Number of missed keep-alives before the TCP connection is declared down.
Range	3 to 100
Default	4
Introduced	16.0.R4

tls-server-profile *string*

Context	**configure system grpc**
Description	Preferred TLS server profile
Reference	configure **system security tls server-tls-profile** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

icmp-vse *boolean*

Context	**configure system**
Description	vendor-specific extensions to ICMP
Default	false
Introduced	16.0.R1

ip

Context	**configure system**
Description	Enter the ip context
Introduced	16.0.R1

allow-qinq-network-interface *boolean*

Context	**configure system ip**
Description	Allow QinQ encapsulation for network interfaces
Default	false
Introduced	16.0.R1

enforce-unique-if-index *boolean*

Context	**configure system ip**
Description	Option to force the creation of IP interface indexes to be globally unique across all contexts
Default	false
Introduced	16.0.R1

l2tp

Context **configure system**
Description Enter the l2tp context
Introduced 16.0.R1

non-multi-chassis-tunnel-id-range

Context **configure system l2tp**
Description Enter the non-multi-chassis-tunnel-id-range context
Introduced 16.0.R1

end *number*

Context **configure system l2tp non-multi-chassis-tunnel-id-range**
Description End value of the range
Range 0 to 16383
Default 16383
Introduced 16.0.R1

start *number*

Context **configure system l2tp non-multi-chassis-tunnel-id-range**
Description Start value of range
Range 0 to 16383
Default 1
Introduced 16.0.R1

lacp

Context **configure system**
Description Enter the lacp context
Introduced 16.0.R1

system-priority *number*

Context	**configure system lacp**
Description	LACP system priority that is combined with the system MAC address to create a unique system ID
Range	1 to 65535
Default	32768
Introduced	16.0.R1

lldp

Context	**configure system**
Description	Enter the lldp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system lldp**
Description	Administrative state of LLDP to be operationally enabled on the system
Default	enable
Options	enable, disable
Introduced	16.0.R1

message-fast-tx *number*

Context	**configure system lldp**
Description	Interval at which LLDP frames are transmitted on behalf of this LLDP
Range	1 to 3600
Default	1
Units	seconds
Introduced	16.0.R1

message-fast-tx-init *number*

Context	**configure system lldp**
Description	Number of PDUs to transmit during a fast transmission period
Range	1 to 8
Default	4
Introduced	16.0.R1

notification-interval *number*

Context	**configure system lldp**
Description	Transmission interval of LLDP notifications
Range	5 to 3600
Default	5
Units	seconds
Introduced	16.0.R1

reinit-delay *number*

Context	**configure system lldp**
Description	Time required before reinitializing LLDP on a port
Range	1 to 10
Default	2
Units	seconds
Introduced	16.0.R1

tx-credit-max *number*

Context	**configure system lldp**
Description	Maximum number for the consecutive LLDPDUs to be transmitted
Range	1 to 100
Default	5
Introduced	16.0.R1

tx-hold-multiplier *number*

Context	**configure system lldp**
Description	LLDP transmit interval time
Range	2 to 10
Default	4
Introduced	16.0.R1

tx-interval *number*

Context	**configure system lldp**
Description	Interval at which LLDP frames are transmitted on behalf of this LLDP
Range	5 to 32768
Default	30
Units	seconds
Introduced	16.0.R1

load-balancing

Context	**configure system**
Description	Enter the load-balancing context
Introduced	16.0.R1

l2tp-load-balancing *boolean*

Context	**configure system load-balancing**
Description	L2TP header load balancing.
Default	false
Introduced	16.0.R4

l4-load-balancing *boolean*

Context	**configure system load-balancing**
Description	Use load balancing based on Layer 4 fields
Default	false
Introduced	16.0.R1

lsr-load-balancing *keyword*

Context	**configure system load-balancing**
Description	Hashing algorithm for system-wide LSR load balancing
Default	lbl-only
Options	lbl-only, lbl-ip, ip-only, eth-encap-ip, lbl-ip-l4-teid
Introduced	16.0.R1

mc-enh-load-balancing *boolean*

Context	**configure system load-balancing**
Description	Enable enhanced egress multicast load balancing behavior for Layer 3 multicast
Default	false
Introduced	16.0.R1

service-id-lag-hashing *boolean*

Context	**configure system load-balancing**
Description	Enable enhanced VLL LAG service ID hashing
Default	false
Introduced	16.0.R1

system-ip-load-balancing *boolean*

Context	**configure system load-balancing**
Description	Use the system IP address in the ECMP and LAG load balancing calculation
Default	false
Introduced	16.0.R1

location *string*

Context	**configure system**
Description	Site location of this system
String Length	1 to 80
Introduced	16.0.R1

login-control

Context	**configure system**
Description	Enter the login-control context
Introduced	16.0.R1

exponential-backoff *boolean*

Context	**configure system login-control**
Description	Login exponential-backoff to deter brute force attack
Default	false
Introduced	16.0.R1

ftp

Context	**configure system login-control**
Description	Enter the ftp context
Introduced	16.0.R1

inbound-max-sessions *number*

Context	**configure system login-control ftp**
Description	Maximum number of concurrent inbound FTP sessions
Range	0 to 5
Default	3
Introduced	16.0.R1

idle-timeout (*keyword* | *number*)

Context	**configure system login-control**
Description	Idle timeout for FTP, console, or Telnet sessions before the system terminate the session
Range	1 to 1440
Default	30
Units	minutes
Options	none
Introduced	16.0.R1

login-banner *boolean*

Context	**configure system login-control**
Description	Display login banner
Default	true
Introduced	16.0.R1

login-scripts

Context	**configure system login-control**
Description	Enter the login-scripts context
Introduced	16.0.R1

global-script *string*

Context	**configure system login-control login-scripts**
Description	URL of the global login script
String Length	1 to 180
Introduced	16.0.R1

per-user-script

Context	**configure system login-control login-scripts**
Description	Enter the per-user-script context
Introduced	16.0.R1

file-name *filename*

Context	**configure system login-control login-scripts per-user-script**
Description	File name of the per-user login script
String Length	1 to 180
Introduced	16.0.R1

user-directory *string*

Context	**configure system login-control login-scripts per-user-script**
Description	Users to define their own login scripts that can be executed when they first log in to CLI
String Length	1 to 180
Introduced	16.0.R1

motd

Context	**configure system login-control**
Description	Enter the motd context
Introduced	16.0.R1

text *string*

Context	**configure system login-control motd**
Description	Message to display in text format
String Length	1 to 900
Introduced	16.0.R1
Notes	This element is part of a choice

url *string*

Context	**configure system login-control motd**
Description	URL from where a message of the day is fetched
String Length	1 to 180
Introduced	16.0.R1
Notes	This element is part of a choice

pre-login-message

Context	**configure system login-control**
Description	Enter the pre-login-message context
Introduced	16.0.R1

message *string*

Context	**configure system login-control pre-login-message**
Description	Message to display prior to the login prompt of an inbound FTP, Telnet, or SSH session
String Length	1 to 900
Introduced	16.0.R1

name *boolean*

Context	**configure system login-control pre-login-message**
Description	Pre login message included in the system name
Default	false
Introduced	16.0.R1

ssh

Context	**configure system login-control**
Description	Enter the ssh context
Introduced	16.0.R1

graceful-shutdown *boolean*

Context	**configure system login-control ssh**
Description	Allow graceful shutdown of SSH sessions
Default	true
Introduced	16.0.R1

inbound-max-sessions *number*

Context	**configure system login-control ssh**
Description	Maximum number of concurrent inbound sessions
Range	0 to 50
Default	5
Introduced	16.0.R1

outbound-max-sessions *number*

Context	**configure system login-control ssh**
Description	Maximum number of concurrent outbound sessions
Range	0 to 15
Default	5
Introduced	16.0.R1

ttl-security *number*

Context	**configure system login-control ssh**
Description	Minimum TTL value for incoming BGP packet
Range	1 to 255
Introduced	16.0.R1

telnet

Context	**configure system login-control**
Description	Enter the telnet context
Introduced	16.0.R1

graceful-shutdown *boolean*

Context	**configure system login-control telnet**
Description	Allow graceful shutdown of Telnet sessions
Default	false
Introduced	16.0.R1

inbound-max-sessions *number*

Context	**configure system login-control telnet**
Description	Maximum number of concurrent inbound sessions
Range	0 to 50
Default	5
Introduced	16.0.R1

outbound-max-sessions *number*

Context	**configure system login-control telnet**
Description	Maximum number of concurrent outbound sessions
Range	0 to 15
Default	5
Introduced	16.0.R1

ttl-security *number*

Context	**configure system login-control telnet**
Description	Minimum TTL value for incoming BGP packet
Range	1 to 255
Introduced	16.0.R1

management-interface

Context	**configure system**
Description	Enter the management-interface context
Introduced	16.0.R1

cli

Context	**configure system management-interface**
Description	Enter the cli context
Introduced	16.0.R1

classic-cli

Context	**configure system management-interface cli**
Description	Enter the classic-cli context
Introduced	16.0.R1

allow-immediate *boolean*

Context	**configure system management-interface cli classic-cli**
Description	Allow writable access in the classic CLI configure branch
Default	true
Introduced	16.0.R1

rollback

Context	**configure system management-interface cli classic-cli**
Description	Enter the rollback context
Introduced	16.0.R1

local-checkpoints *number*

Context	**configure system management-interface cli classic-cli rollback**
Description	Maximum number of rollback files on compact flash
Range	1 to 50
Default	10
Introduced	16.0.R1

location *url*

Context	**configure system management-interface cli classic-cli rollback**
Description	Location and filename of the rollback checkpoint files
String Length	1 to 180
Introduced	16.0.R1

remote-checkpoints *number*

Context	**configure system management-interface cli classic-cli rollback**
Description	Maximum number of rollback files saved at a remote location
Range	1 to 200
Default	10
Introduced	16.0.R1

rescue

Context	**configure system management-interface cli classic-cli rollback**
Description	Enter the rescue context
Introduced	16.0.R1

location *url*

Context	**configure system management-interface cli classic-cli rollback rescue**
Description	Location of the rollback rescue file
String Length	1 to 180
Introduced	16.0.R1

cli-engine *keyword*

Context	**configure system management-interface cli**
Description	System wide CLI engine access
Options	classic-cli, md-cli
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

md-cli

Context	**configure system management-interface cli**
Description	Enter the md-cli context
Introduced	16.0.R1

auto-config-save *boolean*

Context	**configure system management-interface cli md-cli**
Description	Automatically save the configuration as part of a commit operation
Default	false
Introduced	16.0.R1

environment

Context **configure system management-interface cli md-cli**
Description Enter the environment context
Introduced 16.0.R1

command-completion

Context **configure system management-interface cli md-cli environment**
Description Enter the command-completion context
Introduced 16.0.R1

enter *boolean*

Context **configure system management-interface cli md-cli environment command-completion**
Description Command completion control when the enter key is pressed
Default true
Introduced 16.0.R1

space *boolean*

Context **configure system management-interface cli md-cli environment command-completion**
Description Command completion control when the space key is pressed
Default true
Introduced 16.0.R1

tab *boolean*

Context **configure system management-interface cli md-cli environment command-completion**
Description Command completion control when the tab key is pressed
Default true
Introduced 16.0.R1

console

Context **configure system management-interface cli md-cli environment**
Description Enter the console context
Introduced 16.0.R1

length *number*

Context	**configure system management-interface cli md-cli environment console**
Description	Number of lines displayed on the screen
Range	24 to 512
Default	24
Introduced	16.0.R1

width *number*

Context	**configure system management-interface cli md-cli environment console**
Description	Number of columns displayed on the screen
Range	80 to 512
Default	80
Introduced	16.0.R1

message-severity-level

Context	**configure system management-interface cli md-cli environment**
Description	Enter the message-severity-level context
Introduced	16.0.R1

cli *keyword*

Context	**configure system management-interface cli md-cli environment message-severity-level**
Description	Message severity threshold for CLI messages
Default	info
Options	warning, info
Introduced	16.0.R1

more *boolean*

Context	**configure system management-interface cli md-cli environment**
Description	Paging control of the output text
Default	true
Introduced	16.0.R1

progress-indicator

Context	**configure system management-interface cli md-cli environment**
Description	Enter the progress-indicator context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system management-interface cli md-cli environment progress-indicator**
Description	Administrative state of the progress indicator
Default	enable
Options	enable, disable
Introduced	16.0.R1

delay *number*

Context	**configure system management-interface cli md-cli environment progress-indicator**
Description	Delay before progress indicator is displayed
Range	0 to 10000
Default	1000
Units	milliseconds
Introduced	16.0.R1

type *keyword*

Context	**configure system management-interface cli md-cli environment progress-indicator**
Description	Progress indicator output style
Default	dots
Options	dots
Introduced	16.0.R1

prompt

Context	**configure system management-interface cli md-cli environment**
Description	Enter the prompt context
Introduced	16.0.R1

context *boolean*

Context	**configure system management-interface cli md-cli environment prompt**
Description	Current command context
Default	true
Introduced	16.0.R1

newline *boolean*

Context	**configure system management-interface cli md-cli environment prompt**
Description	New line before every prompt line
Default	true
Introduced	16.0.R1

timestamp *boolean*

Context	**configure system management-interface cli md-cli environment prompt**
Description	Time to display timestamp before prompt
Default	false
Introduced	16.0.R1

uncommitted-changes-indicator *boolean*

Context	**configure system management-interface cli md-cli environment prompt**
Description	Indicator of uncommitted changes
Default	true
Introduced	16.0.R1

time-display *keyword*

Context	**configure system management-interface cli md-cli environment**
Description	Time to display timestamp before prompt
Default	local
Options	local, utc
Introduced	16.0.R1

configuration-mode *keyword*

Context	**configure system management-interface**
Description	Mode of the management interface configuration in the system
Default	classic
Options	classic, model-driven, mixed
Introduced	16.0.R1

configuration-save

Context	**configure system management-interface**
Description	Enter the configuration-save context
Introduced	16.0.R1

configuration-backups *number*

Context	**configure system management-interface configuration-save**
Description	Maximum number of backup revisions maintained for a configuration file This value also applies to the number of revisions maintained for the BOF file and debug save files.
Range	1 to 200
Default	5
Introduced	16.0.R1

netconf

Context	**configure system management-interface**
Description	Enter the netconf context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system management-interface netconf**
Description	Administrative state of NETCONF
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-config-save *boolean*

Context	**configure system management-interface netconf**
Description	Automatically save the configuration as part of a commit operation
Default	false
Introduced	16.0.R1

capabilities

Context	**configure system management-interface netconf**
Description	Enter the capabilities context
Introduced	16.0.R1

candidate *boolean*

Context	**configure system management-interface netconf capabilities**
Description	Allow the NETCONF server to access the candidate datastore
Default	true
Introduced	16.0.R1

writable-running *boolean*

Context	**configure system management-interface netconf capabilities**
Description	Allow the NETCONF server to access the writable running datastore
Default	true
Introduced	16.0.R1

schema-path *url*

Context	**configure system management-interface**
Description	Location of schema files used by the system.
String Length	1 to 180
Default	cf3:/YANG
Introduced	16.0.R4

snmp

Context **configure system management-interface**
Description Enter the snmp context
Introduced 16.0.R1

admin-state *keyword*

Context **configure system management-interface snmp**
Description Administrative state of the SNMP daemon
Default enable
Options enable, disable
Introduced 16.0.R1

engine-id *string*

Context **configure system management-interface snmp**
Description SNMP engine ID to uniquely identify the SNMPv3 node
String Length 10 to 64
Introduced 16.0.R1

general-port *number*

Context **configure system management-interface snmp**
Description Port number to be used to send general SNMP messages.
Range 0 | 1 to 65535
Default 161
Introduced 16.0.R1

packet-size *number*

Context **configure system management-interface snmp**
Description Max size SNMP packet generated by this node.
Range 484 to 9216
Default 1500
Introduced 16.0.R1

streaming

Context **configure system management-interface snmp**

Description Enter the streaming context

Introduced 16.0.R1

admin-state *keyword*

Context **configure system management-interface snmp streaming**

Description Administrative state of the streaming daemon

Default disable

Options enable, disable

Introduced 16.0.R1

yang-modules

Context **configure system management-interface**

Description Enter the yang-modules context

Introduced 16.0.R1

base-r13-modules *boolean*

Context **configure system management-interface yang-modules**

Description Support base release 13 YANG models

Default true

Introduced 16.0.R1

nokia-combined-modules *boolean*

Context **configure system management-interface yang-modules**

Description Specifies whether or not the combined Nokia YANG models are supported. When set to 'true', network managers have access to combined Nokia YANG models.

Default false

Introduced 16.0.R1

nokia-modules *boolean*

Context	**configure system management-interface yang-modules**
Description	Support Nokia YANG models
Default	true
Introduced	16.0.R1

openconfig-modules *boolean*

Context	**configure system management-interface yang-modules**
Description	Support OpenConfig YANG models
Default	false
Introduced	16.0.R1

mixed-mode *boolean*

Context	**configure system**
Description	System allowed functionally to run with a combination of forwarding hardware
Default	false
Introduced	16.0.R1

name *string*

Context	**configure system**
Description	Administrative name assigned to the system
String Length	1 to 32
Introduced	16.0.R1

persistence

Context	**configure system**
Description	Enter the persistence context
Introduced	16.0.R1

ancp

Context	**configure system persistence**
Description	Enter the ancp context
Introduced	16.0.R1

description *string*

Context	**configure system persistence ancp**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

location *keyword*

Context	**configure system persistence ancp**
Description	CPM flash card where the information is stored
Options	cf1, cf2, cf3
Introduced	16.0.R1

application-assurance

Context	**configure system persistence**
Description	Enter the application-assurance context
Introduced	16.0.R1

description *string*

Context	**configure system persistence application-assurance**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

location *keyword*

Context **configure system persistence application-assurance**

Description CPM flash card where the information is stored

Options cf1, cf2, cf3

Introduced 16.0.R1

dhcp-server

Context **configure system persistence**

Description Enter the dhcp-server context

Introduced 16.0.R1

description *string*

Context **configure system persistence dhcp-server**

Description Text description

String Length 1 to 80

Introduced 16.0.R1

location *keyword*

Context **configure system persistence dhcp-server**

Description CPM flash card where the information is stored

Options cf1, cf2, cf3

Introduced 16.0.R1

nat-port-forwarding

Context **configure system persistence**

Description Enter the nat-port-forwarding context

Introduced 16.0.R1

description *string*

Context	**configure system persistence nat-port-forwarding**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

location *keyword*

Context	**configure system persistence nat-port-forwarding**
Description	CPM flash card where the information is stored
Options	cf1, cf2, cf3
Introduced	16.0.R1

options

Context	**configure system persistence**
Description	Enter the options context
Introduced	16.0.R1

dhcp-leasetime-threshold *number*

Context	**configure system persistence options**
Description	Threshold time for DHCP leases to be eligible for persistence
Range	1 to 631152000
Introduced	16.0.R1

python-policy-cache

Context	**configure system persistence**
Description	Enter the python-policy-cache context
Introduced	16.0.R1

description *string*

Context	**configure system persistence python-policy-cache**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

location *keyword*

Context	**configure system persistence python-policy-cache**
Description	CPM flash card where the information is stored
Options	cf1, cf2, cf3
Introduced	16.0.R1

subscriber-mgmt

Context	**configure system persistence**
Description	Enter the subscriber-mgmt context
Introduced	16.0.R1

description *string*

Context	**configure system persistence subscriber-mgmt**
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

location *keyword*

Context	**configure system persistence subscriber-mgmt**
Description	CPM flash card where the information is stored
Options	cf1, cf2, cf3
Introduced	16.0.R1

power-management power-zone *number*

Context	**configure system**
Description	Enter the power-management context
Introduced	16.0.R1

power-zone *number*

Context	**configure system power-management power-zone** *number*
Description	Power mode
Range	1 to 2
Introduced	16.0.R1
Notes	This element is part of a list key

mode *keyword*

Context	**configure system power-management power-zone** *number*
Description	Power capacity mode algorithm
Default	basic
Options	none, basic, advanced
Introduced	16.0.R1

power-safety-alert *number*

Context	**configure system power-management power-zone** *number*
Description	Power capacity to trigger a safety alert event
Range	0 to 120000
Default	0
Units	watts
Introduced	16.0.R1

power-safety-level *number*

Context	**configure system power-management power-zone** *number*
Description	Minimum threshold to power off devices
Range	0 to 100
Default	100
Units	percent
Introduced	16.0.R1

ptp

Context	**configure system**
Description	Enter the ptp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system ptp**
Description	Administrative state of PTP
Default	disable
Options	enable, disable
Introduced	16.0.R2

anno-rx-timeout *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system ptp**
Description	The PTP Announce Receipt Timeout, in Announce Intervals.
Range	2 to 10
Default	3
Introduced	16.0.R2

clock-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system ptp**
Description	The PTP clock type
Default	ordinary-slave
Options	ordinary-slave, ordinary-master, boundary
Introduced	16.0.R2

domain *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system ptp**
Description	The domain in which PTP runs on the system.
Range	0 to 255
Introduced	16.0.R2

local-priority *number*

Context	**configure system ptp**
Description	The PTP clock's G.8275.1 Local Priority.
Range	1 to 255
Default	128
Introduced	16.0.R2

log-anno-interval *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system ptp**
Description	The PTP Announce Interval (as the logarithm to the base 2, in seconds).
Range	-3 to 4
Introduced	16.0.R2

network-type *keyword*

Context	**configure system ptp**
Description	The PTP network type.
Default	sdh
Options	sonet, sdh
Introduced	16.0.R2

port [port-id] *string*

Context	**configure system ptp**
Description	Enter the port context
Introduced	16.0.R1

[port-id] *string*

Context	**configure system ptp port** *string*
Description	The ethernet PTP port.
Reference	configure **port** *port*
Introduced	16.0.R2
Notes	This element is part of a list key

address *mac-address*

Context	**configure system ptp port** *string*
Description	The PTP port multicast address.
Default	01:1B:19:00:00:00
Introduced	16.0.R2

admin-state *keyword*

Context	**configure system ptp port** *string*
Description	Administrative state of the PTP port
Default	enable
Options	enable, disable
Introduced	16.0.R2

local-priority *number*

Context	**configure system ptp port** *string*
Description	The PTP port's G.8257.1 local priority
Range	1 to 255
Default	128
Introduced	16.0.R2

log-delay-interval *number*

Context	**configure system ptp port** *string*
Description	The PTP port delay message interval (specified as the logarithm to the base 2 in seconds).
Range	-6 to 0
Introduced	16.0.R2

log-sync-interval *number*

Context	**configure system ptp port** *string*
Description	The PTP port sync message interval (specified as the logarithm to the base 2 in seconds).
Range	-6 to 0
Introduced	16.0.R2

master-only *boolean*

Context	**configure system ptp port** *string*
Description	Restrict the local port from entering the slave state
Introduced	16.0.R2

priority1 *number*

Context	**configure system ptp**
Description	The PTP Priority1
Range	0 to 255
Default	128
Introduced	16.0.R2

priority2 *number*

Context	**configure system ptp**
Description	The PTP Priority2
Range	0 to 255
Default	128
Introduced	16.0.R2

profile *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system ptp**
Description	The PTP Profile
Default	g8265dot1-2010
Options	g8265dot1-2010, ieee1588-2008, g8275dot1-2014
Introduced	16.0.R2

router [router-instance] *string*

Context	**configure system ptp**
Description	Enter the router context
Introduced	16.0.R2

[router-instance] *string*

Context	**configure system ptp router** *string*
Description	Router instance name
Introduced	16.0.R2
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system ptp router** *string*
Description	Administrative state of PTP on the VPRN service
Default	enable
Options	enable, disable
Introduced	16.0.R2

peer [ip-address] *ipv4-unicast-address*

Context	**configure system ptp router** *string*
Description	Enter the peer context
Introduced	16.0.R2

[ip-address] *ipv4-unicast-address*

Context	**configure system ptp router** *string* **peer** *ipv4-unicast-address*
Description	The address of the PTP peer.
Introduced	16.0.R2
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system ptp router** *string* **peer** *ipv4-unicast-address*
Description	Administrative state of PTP peer
Default	enable
Options	enable, disable
Introduced	16.0.R2

local-priority *number*

Context	**configure system ptp router** *string* **peer** *ipv4-unicast-address*
Description	The PTP peer local priority.
Range	1 to 255
Default	128
Introduced	16.0.R2

log-sync-interval *number*

Context	**configure system ptp router** *string* **peer** *ipv4-unicast-address*
Description	The PTP peer sync message interval (specified as the logarithm to the base 2 in seconds).
Range	-6 to 0
Introduced	16.0.R2

peer-limit *number*

Context	**configure system ptp router** *string*
Description	The maximum number of PTP slave peers that can be dynamically created on the router-instance.
Range	0 to 512
Introduced	16.0.R2

script-control

Context	**configure system**
Description	Enter the script-control context
Introduced	16.0.R1

script [script-name] *string* **owner** *string*

Context	**configure system script-control**
Description	Enter the script context
Max. Elements	1500
Introduced	16.0.R1

[script-name] *string*

Context	**configure system script-control script** *string* **owner** *string*
Description	Script name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

owner *string*

Context	**configure system script-control script** *string* **owner** *string*
Description	Script owner
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system script-control script** *string* **owner** *string*
Description	Administrative state of the policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

description *string*

Context	**configure system script-control script** *string* **owner** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

location *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system script-control script** *string* **owner** *string*
Description	Script location
String Length	1 to 255
Introduced	16.0.R1

script-policy [policy-name] *string* **owner** *string*

Context	**configure system script-control**
Description	Enter the script-policy context
Max. Elements	1500
Introduced	16.0.R1

[policy-name] *string*

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Script policy name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

owner *string*

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Script policy owner
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Administrative state of the script policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

expire-time (*number* | *keyword*)

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Maximum amount of time to keep the run history status from a script run
Range	0 to 21474836
Default	3600
Units	seconds
Options	forever
Introduced	16.0.R1

lifetime (*number* | *keyword*)

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Maximum amount of time the script may run.
Range	0 to 21474836
Default	3600
Units	seconds
Options	forever
Introduced	16.0.R1

max-completed *number*

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Maximum number of script run history status entries to keep.
Range	1 to 1500
Default	1
Introduced	16.0.R1

results *string*

Context	**configure system script-control script-policy** *string* **owner** *string*
Description	Location to receive CLI output of a script run
String Length	1 to 255
Introduced	16.0.R1

script

Context **configure system script-control script-policy** *string* **owner** *string*

Description Enter the script context

Introduced 16.0.R1

name *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure system script-control script-policy** *string* **owner** *string* **script**

Description Script name

String Length 1 to 32

Introduced 16.0.R1

owner *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context **configure system script-control script-policy** *string* **owner** *string* **script**

Description Script owner

String Length 1 to 32

Default TiMOS CLI

Introduced 16.0.R1

security

Context **configure system**

Description Enter the security context

Introduced 16.0.R1

aaa

Context **configure system security**

Description Enter the aaa context

Introduced 16.0.R1

cli-session-group [cli-session-group-name] *string*

Context	**configure system security aaa**
Description	Enter the cli-session-group context
Max. Elements	16
Introduced	16.0.R1

[cli-session-group-name] *string*

Context	**configure system security aaa cli-session-group** *string*
Description	The name of the cli session group.
String Length	1 to 32
Introduced	16.0.R3
Notes	This element is part of a list key

combined-max-sessions *number*

Context	**configure system security aaa cli-session-group** *string*
Description	Maximum number of concurrent SSH and Telnet sessions
Range	0 to 50
Introduced	16.0.R1

description *string*

Context	**configure system security aaa cli-session-group** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ssh-max-sessions *number*

Context	**configure system security aaa cli-session-group** *string*
Description	Maximum number of concurrent SSH sessions
Range	0 to 50
Introduced	16.0.R1

telnet-max-sessions *number*

Context	**configure system security aaa cli-session-group** *string*
Description	Maximum number of concurrent TELNET sessions
Range	0 to 50
Introduced	16.0.R1

health-check (*number* | *keyword*)

Context	**configure system security aaa**
Description	Polling interval of RADIUS, TACACS+, and LDAP servers
Range	6 to 1500
Default	30
Units	seconds
Options	none
Introduced	16.0.R1

local-profiles

Context	**configure system security aaa**
Description	Enter the local-profiles context
Introduced	16.0.R1

profile [user-profile-name] *string*

Context	**configure system security aaa local-profiles**
Description	Enter the profile context
Max. Elements	128
Introduced	16.0.R1

[user-profile-name] *string*

Context	**configure system security aaa local-profiles profile** *string*
Description	Profile name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

cli-session-group *string*

Context	**configure system security aaa local-profiles profile** *string*
Description	CLI session group to which the profile belongs
Reference	configure **system security aaa cli-session-group** *string*
Introduced	16.0.R1

combined-max-sessions *number*

Context	**configure system security aaa local-profiles profile** *string*
Description	Maximum number of concurrent SSH and Telnet sessions
Range	0 to 50
Introduced	16.0.R1

default-action *keyword*

Context	**configure system security aaa local-profiles profile** *string*
Description	Action for non-matching entry
Default	none
Options	deny-all, permit-all, none, read-only-all
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure system security aaa local-profiles profile** *string*
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security aaa local-profiles profile** *string* **entry** *number*
Description	User profile entry identifier
Range	1 to 9999
Introduced	16.0.R1
Notes	This element is part of a list key

action *keyword*

Context	**configure system security aaa local-profiles profile** *string* **entry** *number*
Description	Action when a user command matches this entry
Default	none
Options	deny, permit, none, read-only
Introduced	16.0.R1

description *string*

Context	**configure system security aaa local-profiles profile** *string* **entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

match *string*

Context	**configure system security aaa local-profiles profile** *string* **entry** *number*
Description	Command to match this entry
String Length	1 to 255
Introduced	16.0.R1

grpc

Context	**configure system security aaa local-profiles profile** *string*
Description	Enter the grpc context
Introduced	16.0.R1

rpc-authorization

Context	**configure system security aaa local-profiles profile** *string* **grpc**
Description	Enter the rpc-authorization context
Introduced	16.0.R1

gnmi-capabilities *keyword*

Context **configure system security aaa local-profiles profile** *string* **grpc rpc-authorization**

Description Capability RPC use

Options permit, deny

Introduced 16.0.R1

gnmi-get *keyword*

Context **configure system security aaa local-profiles profile** *string* **grpc rpc-authorization**

Description Service gNMI Get RPC

Options permit, deny

Introduced 16.0.R1

gnmi-set *keyword*

Context **configure system security aaa local-profiles profile** *string* **grpc rpc-authorization**

Description Service gNMI Get RPC

Options permit, deny

Introduced 16.0.R1

gnmi-subscribe *keyword*

Context **configure system security aaa local-profiles profile** *string* **grpc rpc-authorization**

Description Service gNMI Subscribe RPC

Options permit, deny

Introduced 16.0.R1

rib-api-getversion *keyword*

Context **configure system security aaa local-profiles profile** *string* **grpc rpc-authorization**

Description Allow RibApi GetVersion RPC.

Options permit, deny

Introduced 16.0.R4

rib-api-modify *keyword*

Context	**configure system security aaa local-profiles profile** *string* **grpc rpc-authorization**
Description	Allow RibApi Modify RPC.
Options	permit, deny
Introduced	16.0.R4

netconf

Context	**configure system security aaa local-profiles profile** *string*
Description	Enter the netconf context
Introduced	16.0.R1

base-op-authorization

Context	**configure system security aaa local-profiles profile** *string* **netconf**
Description	Enter the base-op-authorization context
Introduced	16.0.R1

kill-session *boolean*

Context	**configure system security aaa local-profiles profile** *string* **netconf base-op-authorization**
Description	Send a kill session NETCONF operation
Default	false
Introduced	16.0.R1

lock *boolean*

Context	**configure system security aaa local-profiles profile** *string* **netconf base-op-authorization**
Description	Send a lock session NETCONF operation
Default	false
Introduced	16.0.R1

ssh-max-sessions *number*

Context	**configure system security aaa local-profiles profile** *string*
Description	Maximum number of concurrent SSH sessions
Range	0 to 50
Introduced	16.0.R1

telnet-max-sessions *number*

Context	**configure system security aaa local-profiles profile** *string*
Description	Maximum number of concurrent TELNET sessions
Range	0 to 50
Introduced	16.0.R1

remote-servers

Context	**configure system security aaa**
Description	Enter the remote-servers context
Introduced	16.0.R1

ldap

Context	**configure system security aaa remote-servers**
Description	Enter the ldap context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security aaa remote-servers ldap**
Description	Administrative state of the LDAP protocol
Default	enable
Options	enable, disable
Introduced	16.0.R1

public-key-authentication *boolean*

Context	**configure system security aaa remote-servers ldap**
Description	Allow SSH public key authentication from LDAP server
Default	false
Introduced	16.0.R1

server [index] *number*

Context	**configure system security aaa remote-servers ldap**
Description	Enter the server context
Max. Elements	5
Introduced	16.0.R1

[index] *number*

Context	**configure system security aaa remote-servers ldap server** *number*
Description	Unique value which identifies a specific LDAP server.
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

address [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system security aaa remote-servers ldap server** *number*
Description	Enter the address context
Max. Elements	1
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system security aaa remote-servers ldap server** *number* **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	LDAP server address
Introduced	16.0.R1
Notes	This element is part of a list key

port *number*

Context	**configure system security aaa remote-servers ldap server** *number* **address** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Port number on which to contact the LDAP server.
Range	1 to 65535
Default	389
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security aaa remote-servers ldap server** *number*
Description	Administrative state of this LDAP server
Default	disable
Options	enable, disable
Introduced	16.0.R1

bind-authentication

Context	**configure system security aaa remote-servers ldap server** *number*
Description	Enter the bind-authentication context
Introduced	16.0.R1

password *encrypted-leaf*

Context	**configure system security aaa remote-servers ldap server** *number* **bind-authentication**
Description	Password used for authentication with the LDAP server.
String Length	1 to 198
Introduced	16.0.R1

root-dn *string*

Context	**configure system security aaa remote-servers ldap server** *number* **bind-authentication**
Description	Root domain used for authentication with the LDAP server.
String Length	1 to 512
Introduced	16.0.R1

search

Context	**configure system security aaa remote-servers ldap server** *number*
Description	Enter the search context
Introduced	16.0.R1

base-dn *string*

Context	**configure system security aaa remote-servers ldap server** *number* **search**
Description	LDAP server search domain
String Length	1 to 512
Introduced	16.0.R1

server-name *string*

Context	**configure system security aaa remote-servers ldap server** *number*
Description	LDAP server name
String Length	1 to 32
Introduced	16.0.R1

tls-profile *string*

Context	**configure system security aaa remote-servers ldap server** *number*
Description	TLS client transport profile
Reference	configure **system security tls client-tls-profile** *string*
Introduced	16.0.R1

server-retry *number*

Context	**configure system security aaa remote-servers ldap**
Description	Number of attempts to retry contacting an LDAP server
Range	1 to 10
Default	3
Introduced	16.0.R1

server-timeout *number*

Context	**configure system security aaa remote-servers ldap**
Description	Timeout for a response from an LDAP server
Range	1 to 90
Default	3
Units	seconds
Introduced	16.0.R1

use-default-template *boolean*

Context	**configure system security aaa remote-servers ldap**
Description	Use LDAP default template
Default	true
Introduced	16.0.R1

radius

Context	**configure system security aaa remote-servers**
Description	Enter the radius context
Introduced	16.0.R1

access-algorithm *keyword*

Context	**configure system security aaa remote-servers radius**
Description	Configure the algorithm used to access the set of RADIUS servers.
Default	direct
Options	direct, round-robin
Introduced	16.0.R1

accounting *boolean*

Context	**configure system security aaa remote-servers radius**
Description	Enable/disable RADIUS command accounting.
Default	false
Introduced	16.0.R1

accounting-port *number*

Context	**configure system security aaa remote-servers radius**
Description	Port number on which to contact RADIUS server for accounting requests.
Range	1 to 65535
Default	1813
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security aaa remote-servers radius**
Description	Enable/disable RADIUS protocol operation.
Default	enable
Options	enable, disable
Introduced	16.0.R1

authorization *boolean*

Context	**configure system security aaa remote-servers radius**
Description	Enable/disable RADIUS command authorization.
Default	false
Introduced	16.0.R1

interactive-authentication *boolean*

Context	**configure system security aaa remote-servers radius**
Description	Enable/disable RADIUS interactive authentication.
Default	false
Introduced	16.0.R1

port *number*

Context	**configure system security aaa remote-servers radius**
Description	Port number on which to contact RADIUS server.
Range	1 to 65535
Default	1812
Introduced	16.0.R1

server [index] *number*

Context	**configure system security aaa remote-servers radius**
Description	Enter the server context
Max. Elements	5
Introduced	16.0.R1

[index] *number*

Context	**configure system security aaa remote-servers radius server** *number*
Description	Unique number which identifies a specific RADIUS server.
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system security aaa remote-servers radius server** *number*
Description	IP address of Radius server.
Introduced	16.0.R1
Notes	This element is mandatory

secret *encrypted-leaf*

Context	**configure system security aaa remote-servers radius server** *number*
Description	The secret key associated with RADIUS server. The value of secret cannot be set to an empty string.
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is mandatory

server-retry *number*

Context	**configure system security aaa remote-servers radius**
Description	Number of attempts to retry contacting RADIUS.
Range	1 to 10
Default	3
Introduced	16.0.R1

server-timeout *number*

Context	**configure system security aaa remote-servers radius**
Description	Timeout for a response from RADIUS server.
Range	1 to 90
Default	3
Units	seconds
Introduced	16.0.R1

use-default-template *boolean*

Context	**configure system security aaa remote-servers radius**
Description	Enable/disable RADIUS default template.
Default	false
Introduced	16.0.R1

tacplus

Context	**configure system security aaa remote-servers**
Description	Enter the tacplus context
Introduced	16.0.R1

accounting

Context	**configure system security aaa remote-servers tacplus**
Description	Enter the accounting context
Introduced	16.0.R1

record-type *keyword*

Context	**configure system security aaa remote-servers tacplus accounting**
Description	Configure the type of accounting record packet that is to be sent to the TACACS+ server.
Default	stop-only
Options	start-stop, stop-only
Introduced	16.0.R1

admin-control

Context	**configure system security aaa remote-servers tacplus**
Description	Enter the admin-control context
Introduced	16.0.R1

tacplus-map-to-priv-lvl *number*

Context	**configure system security aaa remote-servers tacplus admin-control**
Description	Interactive authentication exchange from the node to the TACACS+ server
Range	0 to 15
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security aaa remote-servers tacplus**
Description	Enable/disable TACACS+ protocol operation.
Default	enable
Options	enable, disable
Introduced	16.0.R1

authorization

Context	**configure system security aaa remote-servers tacplus**
Description	Enter the authorization context
Introduced	16.0.R1

use-priv-lvl *boolean*

Context	**configure system security aaa remote-servers tacplus authorization**
Description	Enable/disable the privilege level mapping.
Default	false
Introduced	16.0.R1

interactive-authentication *boolean*

Context	**configure system security aaa remote-servers tacplus**
Description	Enable/disable TACACS+ interactive authentication.
Default	false
Introduced	16.0.R1

priv-lvl-map

Context	**configure system security aaa remote-servers tacplus**
Description	Enter the priv-lvl-map context
Introduced	16.0.R1

priv-lvl [level] *number*

Context	**configure system security aaa remote-servers tacplus priv-lvl-map**
Description	Enter the priv-lvl context
Introduced	16.0.R1

[level] *number*

Context	**configure system security aaa remote-servers tacplus priv-lvl-map priv-lvl** *number*
Description	Specifies the privilege level for this mapping.
Range	0 to 15
Introduced	16.0.R1
Notes	This element is part of a list key

user-profile-name *string*

Context	**configure system security aaa remote-servers tacplus priv-lvl-map priv-lvl** *number*
Description	Specifies the user profile for this mapping.
Reference	configure **system security aaa local-profiles profile** *string*
Introduced	16.0.R1
Notes	This element is mandatory

server [index] *number*

Context	**configure system security aaa remote-servers tacplus**
Description	Enter the server context
Max. Elements	5
Introduced	16.0.R1

[index] *number*

Context	**configure system security aaa remote-servers tacplus server** *number*
Description	Identifies a specific TACACS+ server.
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system security aaa remote-servers tacplus server** *number*
Description	IP address of TACACS+ server.
Introduced	16.0.R1
Notes	This element is mandatory

port *number*

Context	**configure system security aaa remote-servers tacplus server** *number*
Description	TCP port number on which to contact TACACS+ server.
Range	0 | 1 to 65535
Default	49
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure system security aaa remote-servers tacplus server** *number*
Description	The secret key associated with the TACACS+ server. The value of secret cannot be set to an empty string.
String Length	1 to 198
Introduced	16.0.R1
Notes	This element is mandatory

server-timeout *number*

Context	**configure system security aaa remote-servers tacplus**
Description	Timeout for a response from an TACACS+ server.
Range	1 to 90
Default	3
Units	seconds
Introduced	16.0.R1

use-default-template *boolean*

Context	**configure system security aaa remote-servers tacplus**
Description	Enable/disable TACACS+ default template.
Default	true
Introduced	16.0.R1

user-template [user-template-name] *keyword*

Context	**configure system security aaa**
Description	Enter the user-template context
Introduced	16.0.R1

[user-template-name] *keyword*

Context	**configure system security aaa user-template** *keyword*
Description	Template value to derive a system user
Options	ldap-default, radius-default, tacplus-default
Introduced	16.0.R1
Notes	This element is part of a list key

access

Context	**configure system security aaa user-template** *keyword*
Description	Enter the access context
Introduced	16.0.R1

console *boolean*

Context **configure system security aaa user-template** *keyword* **access**
Description Allow console access (serial port or Telnet)
Default true
Introduced 16.0.R1

ftp *boolean*

Context **configure system security aaa user-template** *keyword* **access**
Description Allow FTP access
Default false
Introduced 16.0.R1

grpc *boolean*

Context **configure system security aaa user-template** *keyword* **access**
Description Allow gRPC access
Default false
Introduced 16.0.R1

netconf *boolean*

Context **configure system security aaa user-template** *keyword* **access**
Description Allow NETCONF session access
Default false
Introduced 16.0.R1

console

Context **configure system security aaa user-template** *keyword*
Description Enter the console context
Introduced 16.0.R1

login-exec *string*

Context	**configure system security aaa user-template** *keyword* **console**
Description	File to execute when a user, who derived from the template, logs in successfully
String Length	1 to 200
Introduced	16.0.R1

home-directory (*sat-url* | *cflash-without-slot-url*)

Context	**configure system security aaa user-template** *keyword*
Description	Home directory for the user based on this template
Introduced	16.0.R1

profile *string*

Context	**configure system security aaa user-template** *keyword*
Description	User profile based on this template
String Length	1 to 32
Introduced	16.0.R1

restricted-to-home *boolean*

Context	**configure system security aaa user-template** *keyword*
Description	Users to prevent from navigating above their home directories to access file
Default	false
Introduced	16.0.R1

cli-script

Context	**configure system security**
Description	Enter the cli-script context
Introduced	16.0.R1

authorization

Context	**configure system security cli-script**
Description	Enter the authorization context
Introduced	16.0.R1

cron

Context	**configure system security cli-script authorization**
Description	Enter the cron context
Introduced	16.0.R1

cli-user *string*

Context	**configure system security cli-script authorization cron**
Description	User profile name for command authorization when executing a CLI command script
Reference	configure **system security user-params local-user user** *string*
Introduced	16.0.R1

event-handler

Context	**configure system security cli-script authorization**
Description	Enter the event-handler context
Introduced	16.0.R1

cli-user *string*

Context	**configure system security cli-script authorization event-handler**
Description	User profile name for command authorization when executing a CLI command script
Reference	configure **system security user-params local-user user** *string*
Introduced	16.0.R1

vsd

Context	**configure system security cli-script authorization**
Description	Enter the vsd context
Introduced	16.0.R1

cli-user *string*

Context	**configure system security cli-script authorization vsd**
Description	User profile name for command authorization when executing a CLI command script
Reference	configure **system security user-params local-user user** *string*
Introduced	16.0.R1

cpm-filter

Context **configure system security**
Description Enter the cpm-filter context
Introduced 16.0.R1

default-action *keyword*

Context **configure system security cpm-filter**
Description Action for packets that do not match any filter entries
Default accept
Options drop, accept
Introduced 16.0.R1

ip-filter

Context **configure system security cpm-filter**
Description Enter the ip-filter context
Introduced 16.0.R1

admin-state *keyword*

Context **configure system security cpm-filter ip-filter**
Description Administrative state of this CPM filter
Default disable
Options enable, disable
Introduced 16.0.R1

entry [entry-id] *number*

Context **configure system security cpm-filter ip-filter**
Description Enter the entry context
Introduced 16.0.R1

[entry-id] *number*

Context **configure system security cpm-filter ip-filter entry** *number*
Description The id used to uniquely identify this filter entry.
Range 1 to 131072
Introduced 16.0.R5
Notes This element is part of a list key

action

Context **configure system security cpm-filter ip-filter entry** *number*
Description Enter the action context
Introduced 16.0.R1

accept

Context **configure system security cpm-filter ip-filter entry** *number* **action**
Description Packets matching the filter entry are forwarded
Introduced 16.0.R1
Notes This element is part of a choice

default

Context **configure system security cpm-filter ip-filter entry** *number* **action**
Description Action to take on the traffic when the filter entry matches
Introduced 16.0.R1
Notes This element is part of a choice

drop

Context **configure system security cpm-filter ip-filter entry** *number* **action**
Description Drop packet matching this entry
Introduced 16.0.R1
Notes This element is part of a choice

queue *string*

Context	**configure system security cpm-filter ip-filter entry** *number* **action**
Description	Packets matching the filter entry to be sent to this queue
Reference	configure **system security cpm-queue queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure system security cpm-filter ip-filter entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

log *string*

Context	**configure system security cpm-filter ip-filter entry** *number*
Description	Log that is used for packets matching this entry
Reference	configure **filter log** *number*
Introduced	16.0.R1

match

Context	**configure system security cpm-filter ip-filter entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dscp *keyword*

Context	**configure system security cpm-filter ip-filter entry** *number* **match**
Description	Specifies the DSCP to be matched on the packet.
Options	be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63
Introduced	16.0.R5

dst-ip

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the dst-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure system security cpm-filter ip-filter entry** *number* **match dst-ip**

Description IP address to match

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure system security cpm-filter ip-filter entry** *number* **match dst-ip**

Description IP prefix list as match criterion for IP address

Reference configure **filter match-list ip-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure system security cpm-filter ip-filter entry** *number* **match dst-ip**

Description Mask as an AND to the IP address

Introduced 16.0.R1

Notes This element is part of a choice

dst-port

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the **dst-port** context

Introduced 16.0.R5

eq *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match dst-port**
Description	Port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

mask *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match dst-port**
Description	Mask to apply when matching the port
Range	1 to 65535
Default	65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure system security cpm-filter ip-filter entry** *number* **match dst-port**
Description	Parameter port list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure system security cpm-filter ip-filter entry** *number* **match dst-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

start *number*

Context **configure system security cpm-filter ip-filter entry** *number* **match dst-port range**

Description Lower bound port to match

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

fragment *keyword*

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description If not default, matches fragmented/unfragmented packets as per value of the object.

Options false, true

Introduced 16.0.R5

icmp

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the icmp context

Introduced 16.0.R1

code *number*

Context **configure system security cpm-filter ip-filter entry** *number* **match icmp**

Description ICMP code to match

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

type *number*

Context **configure system security cpm-filter ip-filter entry** *number* **match icmp**

Description ICMP type to match

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

ip-option

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the ip-option context

Introduced 16.0.R1

mask *number*

Context **configure system security cpm-filter ip-filter entry** *number* **match ip-option**

Description Mask that is ANDed with ip-option value in the packet header

Range 1 to 255

Default 255

Introduced 16.0.R1

type *number*

Context **configure system security cpm-filter ip-filter entry** *number* **match ip-option**

Description Specific IP option to match

Introduced 16.0.R1

Notes This element is mandatory

multiple-option *boolean*

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Specifies whether multiple options are to be matched.

Introduced 16.0.R5

option-present *boolean*

Context	**configure system security cpm-filter ip-filter entry** *number* **match**
Description	Specifies whether IP options matching is enabled.
Introduced	16.0.R5

port

Context	**configure system security cpm-filter ip-filter entry** *number* **match**
Description	Enter the **port** context
Introduced	16.0.R5

eq *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match port**
Description	Port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

mask *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match port**
Description	Mask to apply when matching the port
Range	1 to 65535
Default	65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure system security cpm-filter ip-filter entry** *number* **match port**
Description	Parameter port list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure system security cpm-filter ip-filter entry** *number* **match port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

protocol (*number* | *keyword*)

Context	**configure system security cpm-filter ip-filter entry** *number* **match**
Description	Specifies the IP protocol to match. It can be set to -1 to disable matching cpm protocol.
Introduced	16.0.R5

router-instance *string*

Context	**configure system security cpm-filter ip-filter entry** *number* **match**
Description	Specifies router instance to be matched.
String Length	1 to 64
Introduced	16.0.R5

src-ip

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure system security cpm-filter ip-filter entry** *number* **match src-ip**

Description IP address to match

Introduced 16.0.R1

Notes This element is part of a choice

ip-prefix-list *string*

Context **configure system security cpm-filter ip-filter entry** *number* **match src-ip**

Description IP prefix list as match criterion for IP address

Reference configure **filter match-list ip-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure system security cpm-filter ip-filter entry** *number* **match src-ip**

Description Mask as an AND to the IP address

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the **src-port** context

Introduced 16.0.R5

eq *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match src-port**
Description	Port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

mask *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match src-port**
Description	Mask to apply when matching the port
Range	1 to 65535
Default	65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure system security cpm-filter ip-filter entry** *number* **match src-port**
Description	Parameter port list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure system security cpm-filter ip-filter entry** *number* **match src-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure system security cpm-filter ip-filter entry** *number* **match src-port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory

This element is part of a choice

start *number*

Context **configure system security cpm-filter ip-filter entry** *number* **match src-port range**

Description Lower bound port to match

Range 0 to 65535

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

tcp-flags

Context **configure system security cpm-filter ip-filter entry** *number* **match**

Description Enter the tcp-flags context

Introduced 16.0.R1

ack *boolean*

Context **configure system security cpm-filter ip-filter entry** *number* **match tcp-flags**

Description TCP ACK packet to match

Introduced 16.0.R1

syn *boolean*

Context **configure system security cpm-filter ip-filter entry** *number* **match tcp-flags**

Description TCP SYN packet to match

Introduced 16.0.R1

ipv6-filter

Context **configure system security cpm-filter**

Description Enter the ipv6-filter context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure system security cpm-filter ipv6-filter**
Description	Administrative state of this CPM filter
Default	disable
Options	enable, disable
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure system security cpm-filter ipv6-filter**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number*
Description	The id used to uniquely identify this filter entry.
Range	1 to 131072
Introduced	16.0.R5
Notes	This element is part of a list key

action

Context	**configure system security cpm-filter ipv6-filter entry** *number*
Description	Enter the action context
Introduced	16.0.R1

accept

Context	**configure system security cpm-filter ipv6-filter entry** *number* **action**
Description	Packets matching the filter entry are forwarded
Introduced	16.0.R1
Notes	This element is part of a choice

default

Context	**configure system security cpm-filter ipv6-filter entry** *number* **action**
Description	Action to take on the traffic when the filter entry matches
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure system security cpm-filter ipv6-filter entry** *number* **action**
Description	Drop packet matching this entry
Introduced	16.0.R1
Notes	This element is part of a choice

queue *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **action**
Description	Packets matching the filter entry to be sent to this queue
Reference	configure **system security cpm-queue queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

log *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number*
Description	Log that is used for packets matching this entry
Reference	configure **filter log** *number*
Introduced	16.0.R1

match

Context **configure system security cpm-filter ipv6-filter entry** *number*

Description Enter the match context

Introduced 16.0.R1

dscp *keyword*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match**

Description Specifies the DSCP to be matched on the packet.

Options be, cp1, cp2, cp3, cp4, cp5, cp6, cp7, cs1, cp9, af11, cp11, af12, cp13, af13, cp15, cs2, cp17, af21, cp19, af22, cp21, af23, cp23, cs3, cp25, af31, cp27, af32, cp29, af33, cp31, cs4, cp33, af41, cp35, af42, cp37, af43, cp39, cs5, cp41, cp42, cp43, cp44, cp45, ef, cp47, nc1, cp49, cp50, cp51, cp52, cp53, cp54, cp55, nc2, cp57, cp58, cp59, cp60, cp61, cp62, cp63

Introduced 16.0.R5

dst-ip

Context **configure system security cpm-filter ipv6-filter entry** *number* **match**

Description Enter the dst-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure system security cpm-filter ipv6-filter entry** *number* **match dst-ip**

Description IP address to match

Introduced 16.0.R1

Notes This element is part of a choice

ipv6-prefix-list *string*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match dst-ip**

Description IP prefix list as match criterion for IP address

Reference configure **filter match-list ipv6-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-ip**
Description	Mask as an AND to IPv6 address
Introduced	16.0.R1
Notes	This element is part of a choice

dst-port

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	Enter the **dst-port** context
Introduced	16.0.R5

eq *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-port**
Description	Port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

mask *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-port**
Description	Mask to apply when matching the port
Range	1 to 65535
Default	65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-port**
Description	Parameter port list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match dst-port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

extension-header

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	Enter the extension-header context
Introduced	16.0.R1

hop-by-hop *boolean*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match extension-header**
Description	Match a packet as per the existence of a Hop-By-Hop options Extension Header
Introduced	16.0.R1

flow-label *number*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match**

Description Specifies the flow label to be matched.

Range 0 to 1048575

Introduced 16.0.R5

fragment *keyword*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match**

Description If not default, matches fragmented/unfragmented packets as per value of the object.

Options false, true

Introduced 16.0.R5

icmp

Context **configure system security cpm-filter ipv6-filter entry** *number* **match**

Description Enter the icmp context

Introduced 16.0.R1

code *number*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match icmp**

Description ICMP code to match

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

type *number*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match icmp**

Description ICMP type to match

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

next-header (*number* | *keyword*)

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	IPv6 next header to match. Because the match criteria only pertains to the last next-header, the following values will not match a filter entry: 0, 43, 44, 50, 51, and 60.
Introduced	16.0.R5

port

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	Enter the **port** context
Introduced	16.0.R5

eq *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match port**
Description	Port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is part of a choice

mask *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match port**
Description	Mask to apply when matching the port
Range	1 to 65535
Default	65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match port**
Description	Parameter port list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

router-instance *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	Specifies router instance to be matched.
String Length	1 to 64
Introduced	16.0.R5

src-ip

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	Enter the src-ip context
Introduced	16.0.R1

address (*string* | *string*)

Context **configure system security cpm-filter ipv6-filter entry** *number* **match src-ip**

Description IP address to match

Introduced 16.0.R1

Notes This element is part of a choice

ipv6-prefix-list *string*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match src-ip**

Description IP prefix list as match criterion for IP address

Reference configure **filter match-list ipv6-prefix-list** *string*

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match src-ip**

Description Mask as an AND to IPv6 address

Introduced 16.0.R1

Notes This element is part of a choice

src-port

Context **configure system security cpm-filter ipv6-filter entry** *number* **match**

Description Enter the **src-port** context

Introduced 16.0.R5

eq *number*

Context **configure system security cpm-filter ipv6-filter entry** *number* **match src-port**

Description Port to match

Range 0 to 65535

Introduced 16.0.R1

Notes This element is part of a choice

mask *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match src-port**
Description	Mask to apply when matching the port
Range	1 to 65535
Default	65535
Introduced	16.0.R1
Notes	This element is part of a choice

port-list *string*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match src-port**
Description	Parameter port list as match criterion
Reference	configure **filter match-list port-list** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

range

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match src-port**
Description	Enter the **range** context
Introduced	16.0.R1

end *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match src-port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match src-port range**
Description	Lower bound port to match
Range	0 to 65535
Introduced	16.0.R1
Notes	This element is mandatory
	This element is part of a choice

tcp-flags

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match**
Description	Enter the tcp-flags context
Introduced	16.0.R1

ack *boolean*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match tcp-flags**
Description	TCP ACK packet to match
Introduced	16.0.R1

syn *boolean*

Context	**configure system security cpm-filter ipv6-filter entry** *number* **match tcp-flags**
Description	TCP SYN packet to match
Introduced	16.0.R1

mac-filter

Context	**configure system security cpm-filter**
Description	Enter the mac-filter context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security cpm-filter mac-filter**
Description	Administrative state of this CPM filter
Default	disable
Options	enable, disable
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure system security cpm-filter mac-filter**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security cpm-filter mac-filter entry** *number*
Description	The id used to uniquely identify this filter entry.
Range	1 to 131072
Introduced	16.0.R5
Notes	This element is part of a list key

action

Context	**configure system security cpm-filter mac-filter entry** *number*
Description	Enter the action context
Introduced	16.0.R1

accept

Context	**configure system security cpm-filter mac-filter entry** *number* **action**
Description	Packets matching the filter entry are forwarded
Introduced	16.0.R1
Notes	This element is part of a choice

default

Context	**configure system security cpm-filter mac-filter entry** *number* **action**
Description	Action to take on the traffic when the filter entry matches
Introduced	16.0.R1
Notes	This element is part of a choice

drop

Context	**configure system security cpm-filter mac-filter entry** *number* **action**
Description	Drop packet matching this entry
Introduced	16.0.R1
Notes	This element is part of a choice

queue *string*

Context	**configure system security cpm-filter mac-filter entry** *number* **action**
Description	Packets matching the filter entry to be sent to this queue
Reference	configure **system security cpm-queue queue** *number*
Introduced	16.0.R1
Notes	This element is part of a choice

description *string*

Context	**configure system security cpm-filter mac-filter entry** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

log *string*

Context	**configure system security cpm-filter mac-filter entry** *number*
Description	Log that is used for packets matching this entry
Reference	configure **filter log** *number*
Introduced	16.0.R1

match

Context **configure system security cpm-filter mac-filter entry** *number*

Description Enter the match context

Introduced 16.0.R1

cfm-opcode

Context **configure system security cpm-filter mac-filter entry** *number* **match**

Description Enter the cfm-opcode context

Introduced 16.0.R1

eq *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match cfm-opcode**

Description Value of the opcode to match

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match cfm-opcode**

Description Lower bound for the range of opcode to match

Range 0 to 254

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match cfm-opcode**

Description Upper bound for the range of opcode to match

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure system security cpm-filter mac-filter entry** *number* **match cfm-opcode**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match cfm-opcode range**

Description Upper bound for the range of opcode to match

Range 1 to 255

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

start *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match cfm-opcode range**

Description Lower bound for the range of opcode to match

Range 0 to 254

Introduced 16.0.R1

Notes This element is mandatory

This element is part of a choice

dst-mac

Context **configure system security cpm-filter mac-filter entry** *number* **match**

Description Enter the dst-mac context

Introduced 16.0.R1

address *mac-address*

Context **configure system security cpm-filter mac-filter entry** *number* **match dst-mac**

Description MAC address

Introduced 16.0.R1

Notes This element is mandatory

mask *mac-address*

Context	**configure system security cpm-filter mac-filter entry** *number* **match dst-mac**
Description	MAC address mask
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

etype *etype-value*

Context	**configure system security cpm-filter mac-filter entry** *number* **match**
Description	Ethernet type
String Length	5 to 6
Introduced	16.0.R1

frame-type *keyword*

Context	**configure system security cpm-filter mac-filter entry** *number* **match**
Description	MAC frame as match criteria
Options	802dot2-llc, ethernet-ii
Introduced	16.0.R1

llc-dsap

Context	**configure system security cpm-filter mac-filter entry** *number* **match**
Description	Enter the llc-dsap context
Introduced	16.0.R1

dsap *number*

Context	**configure system security cpm-filter mac-filter entry** *number* **match llc-dsap**
Description	DSAP value
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

mask *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match llc-dsap**
Description DSAP mask
Range 1 to 255
Default 255
Introduced 16.0.R1

llc-ssap

Context **configure system security cpm-filter mac-filter entry** *number* **match**
Description Enter the llc-ssap context
Introduced 16.0.R1

mask *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match llc-ssap**
Description SAP mask
Range 1 to 255
Default 255
Introduced 16.0.R1

ssap *number*

Context **configure system security cpm-filter mac-filter entry** *number* **match llc-ssap**
Description SSAP value
Range 0 to 255
Introduced 16.0.R1
Notes This element is mandatory

service *string*

Context **configure system security cpm-filter mac-filter entry** *number* **match**
Description Specifies the VPLS service in which the packet is to be received for this entry to match.
Reference configure **service vpls** *service-name*
Introduced 16.0.R1

src-mac

Context **configure system security cpm-filter mac-filter entry** *number* **match**

Description Enter the src-mac context

Introduced 16.0.R1

address *mac-address*

Context **configure system security cpm-filter mac-filter entry** *number* **match src-mac**

Description MAC address

Introduced 16.0.R1

Notes This element is mandatory

mask *mac-address*

Context **configure system security cpm-filter mac-filter entry** *number* **match src-mac**

Description MAC address mask

Default ff:ff:ff:ff:ff:ff

Introduced 16.0.R1

cpm-queue

Context **configure system security**

Description Enter the cpm-queue context

Introduced 16.0.R1

queue [queue-id] *number*

Context **configure system security cpm-queue**

Description Enter the queue context

Introduced 16.0.R1

[queue-id] *number*

Context	**configure system security cpm-queue queue** *number*
Description	Unique identifier of a CPM queue
Range	33 to 2000
Introduced	16.0.R1
Notes	This element is part of a list key

cbs *number*

Context	**configure system security cpm-queue queue** *number*
Description	CBS (Committed Burst Excess) associated with this queue
Range	0 to 131072
Units	kilobps
Introduced	16.0.R1

mbs *number*

Context	**configure system security cpm-queue queue** *number*
Description	MBS (Maximum Burst Size) associated with this queue
Range	0 to 131072
Units	kilobps
Introduced	16.0.R1

rate

Context	**configure system security cpm-queue queue** *number*
Description	Enter the rate context
Introduced	16.0.R1

cir (*number* | *keyword*)

Context	**configure system security cpm-queue queue** *number* **rate**
Description	Amount of bandwidth committed to the queue
Default	max
Units	kilobps
Introduced	16.0.R1

pir (*number* | *keyword*)

Context **configure system security cpm-queue queue** *number* **rate**
Description Peak information rate associated with this queue
Default max
Units kilobps
Introduced 16.0.R1

cpu-protection

Context **configure system security**
Description Enter the cpu-protection context
Introduced 16.0.R1

ip-src-monitoring

Context **configure system security cpu-protection**
Description Enter the ip-src-monitoring context
Introduced 16.0.R1

included-protocols

Context **configure system security cpu-protection ip-src-monitoring**
Description Enter the included-protocols context
Introduced 16.0.R1

dhcp *boolean*

Context **configure system security cpu-protection ip-src-monitoring included-protocols**
Description DHCP protocol packets for IP source monitoring
Default true
Introduced 16.0.R1

gtp *boolean*

Context **configure system security cpu-protection ip-src-monitoring included-protocols**
Description GTP protocol packets for IP source monitoring
Default false
Introduced 16.0.R1

icmp *boolean*

Context **configure system security cpu-protection ip-src-monitoring included-protocols**
Description ICMP protocol packets for IP source monitoring
Default false
Introduced 16.0.R1

igmp *boolean*

Context **configure system security cpu-protection ip-src-monitoring included-protocols**
Description IGMP protocol for IP source monitoring
Default false
Introduced 16.0.R1

link-specific-rate (*number* | *keyword*)

Context **configure system security cpu-protection**
Description Limit of packet arrival rate limit for link level protocols
Units packets per second
Introduced 16.0.R1

policy [policy-id] *number*

Context **configure system security cpu-protection**
Description Enter the policy context
Introduced 16.0.R1

[policy-id] *number*

Context	**configure system security cpu-protection policy** *number*
Description	Number that identifies this CPU protection policy
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

alarm *boolean*

Context	**configure system security cpu-protection policy** *number*
Description	Notification sent when a packet arrival rate limits is reached
Default	true
Introduced	16.0.R1

description *string*

Context	**configure system security cpu-protection policy** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

eth-cfm

Context	**configure system security cpu-protection policy** *number*
Description	Enter the eth-cfm context
Introduced	16.0.R1

entry [id] *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm**
Description	Enter the entry context
Max. Elements	10
Introduced	16.0.R1

[id] *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number*
Description	Number to identify this entry
Range	1 to 100
Introduced	16.0.R1
Notes	This element is part of a list key

level start *number* **end** *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number*
Description	Enter the level context
Min. Elements	1
Introduced	16.0.R1

start *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number* **level start** *number* **end** *number*
Description	First level in the range
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number* **level start** *number* **end** *number*
Description	Last level in the range
Range	0 to 7
Introduced	16.0.R1
Notes	This element is part of a list key

opcode start *number* **end** *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number*
Description	Enter the opcode context
Min. Elements	1
Introduced	16.0.R1

start *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number* **opcode start** *number* **end** *number*
Description	First opcode in the range
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

end *number*

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number* **opcode start** *number* **end** *number*
Description	Last opcode in the range
Range	0 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

pir (*number* | *keyword*)

Context	**configure system security cpu-protection policy** *number* **eth-cfm entry** *number*
Description	Packet arrival rate limit for this set of Ethernet CFM packets
Range	0 to 65534
Default	max
Units	packets per second
Options	max
Introduced	16.0.R1

out-profile-rate

Context	**configure system security cpu-protection policy** *number*
Description	Enter the out-profile-rate context
Introduced	16.0.R1

log-events *boolean*

Context	**configure system security cpu-protection policy** *number* **out-profile-rate**
Description	Log events to generate when the out profile rate PIR is exceeded
Default	false
Introduced	16.0.R1

pir (*number* | *keyword*)

Context	**configure system security cpu-protection policy** *number* **out-profile-rate**
Description	Packet arrival threshold PIR above which incoming control packets are discarded
Units	packets per second
Introduced	16.0.R1

overall-rate (*number* | *keyword*)

Context	**configure system security cpu-protection policy** *number*
Description	Overall packet arrival rate limit to apply for all sources of packets
Units	packets per second
Introduced	16.0.R1

per-source-parameters

Context	**configure system security cpu-protection policy** *number*
Description	Enter the per-source-parameters context
Introduced	16.0.R1

ip-src-monitoring

Context	**configure system security cpu-protection policy** *number* **per-source-parameters**
Description	Enter the ip-src-monitoring context
Introduced	16.0.R1

limit-dhcp-ci-addr-zero *boolean*

Context	**configure system security cpu-protection policy** *number* **per-source-parameters ip-src-monitoring**
Description	Apply per-source rate limiting to DHCP packets containing Client IP address zero
Default	false
Introduced	16.0.R1

per-source-rate (*number* | *keyword*)

Context	**configure system security cpu-protection policy** *number*
Description	Per-source packet arrival rate limit
Default	max
Units	packets per second
Introduced	16.0.R1

port-overall-rate

Context	**configure system security cpu-protection**
Description	Enter the port-overall-rate context
Introduced	16.0.R1

action-low-priority *boolean*

Context	**configure system security cpu-protection port-overall-rate**
Description	Mark packets that exceed the rate as low-priority instead of discarding them immediately
Default	false
Introduced	16.0.R1

pir (*number* | *keyword*)

Context	**configure system security cpu-protection port-overall-rate**
Description	Per-port packet arrival rate limit applied to all protocol messages to be processed by CPM
Units	packets per second
Introduced	16.0.R1

protocol-protection

Context	**configure system security cpu-protection**
Description	Enter the protocol-protection context
Introduced	16.0.R1

allow-sham-links *boolean*

Context	**configure system security cpu-protection protocol-protection**
Description	Allow OSPF sham-link traffic over VPRN transport tunnels
Default	false
Introduced	16.0.R1

block-pim-tunneled *boolean*

Context	**configure system security cpu-protection protocol-protection**
Description	Block extraction and processing of PIM packets that arrive inside a tunnel
Default	false
Introduced	16.0.R1

dist-cpu-protection

Context	**configure system security**
Description	Enter the dist-cpu-protection context
Introduced	16.0.R1

policy [policy-name] *string*

Context	**configure system security dist-cpu-protection**
Description	Enter the policy context
Max. Elements	18
Introduced	16.0.R1

[policy-name] *string*

Context	**configure system security dist-cpu-protection policy** *string*
Description	Name for the distributed CPU protection policy
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system security dist-cpu-protection policy** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

local-monitoring-policer [policer-name] *string*

Context	**configure system security dist-cpu-protection policy** *string*
Description	Enter the local-monitoring-policer context
Max. Elements	1
Introduced	16.0.R1

[policer-name] *string*

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string*
Description	Name for the distributed CPU protection local monitoring policer
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

exceed-action *keyword*

Context **configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string*

Description Action to perform upon the extracted control packets when configured policer rates are exceeded

Options discard, low-priority, none

Introduced 16.0.R1

log-events *keyword*

Context **configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string*

Description Control of log events creation for static policer status and activity

Default true

Options false, true, verbose

Introduced 16.0.R1

rate

Context **configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string*

Description Enter the rate context

Introduced 16.0.R1

kbps

Context **configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate**

Description Enter the **kbps** context

Introduced 16.0.R1

limit (*keyword* | *number*)

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate kbps**
Description	Limiting rate and burst tolerance for the policer in a packet rate, or a bit rate
Range	1 to 20000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

mbs *number*

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate kbps**
Description	Buffer space assigned
Range	0 to 4194304
Units	bytes
Introduced	16.0.R1
Notes	This element is part of a choice

packets

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate**
Description	Enter the **packets** context
Introduced	16.0.R1

initial-delay *number*

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate packets**
Description	Number of packets allowed in an initial burst or burst after the policer bucket drained to zero
Range	0 to 255
Default	0
Units	packets
Introduced	16.0.R1
Notes	This element is part of a choice

limit (*keyword* | *number*)

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate packets**
Description	Overall packet arrival rate limit to be applied to all sources of packets
Range	0 to 255
Default	max
Units	packets per interval
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

within *number*

Context	**configure system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string* **rate packets**
Description	Measurement interval for packets rate
Range	1 to 32767
Default	1
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

protocol [protocol-name] *keyword*

Context	**configure system security dist-cpu-protection policy** *string*
Description	Enter the protocol context
Introduced	16.0.R1

[protocol-name] *keyword*

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword*
Description	Protocol name that is monitored by the distributed CPU protection policy
Options	arp, dhcp, http-redirect, icmp, igmp, mld, ndis, pppoe-pppoa, all-unspecified, mpls-ttl, bfd-cpm, bgp, eth-cfm, isis, ldp, ospf, pim, rsvp
Introduced	16.0.R1
Notes	This element is part of a list key

dynamic-parameters

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword*
Description	Enter the dynamic-parameters context
Introduced	16.0.R1

detection-time *number*

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters**
Description	Minimum time that an instantiated dynamic enforcing policer remains allocated
Range	1 to 128000
Default	30
Units	seconds
Introduced	16.0.R1

exceed-action

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters**
Description	Enter the exceed-action context
Introduced	16.0.R1

action *keyword*

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters exceed-action**

Description Action to perform upon the extracted control packets when configured policer rates are exceeded

Options discard, low-priority, none

Introduced 16.0.R1

hold-down (*keyword* | *number*)

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters exceed-action**

Description Hold down behavior

Range 1 to 10080

Default none

Units seconds

Options indefinite, none

Introduced 16.0.R1

log-events *keyword*

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters**

Description Control of log events creation for static policer status and activity

Default true

Options false, true, verbose

Introduced 16.0.R1

rate

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters**

Description Enter the rate context

Introduced 16.0.R1

kbps

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate**

Description Enter the **kbps** context

Introduced 16.0.R1

limit (*keyword* | *number*)

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate kbps**

Description Limiting rate and burst tolerance for the policer in a packet rate, or a bit rate

Range 1 to 20000000

Default max

Units kilobps

Options max

Introduced 16.0.R1

Notes This element is part of a choice

mbs *number*

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate kbps**

Description Buffer space assigned

Range 0 to 4194304

Units bytes

Introduced 16.0.R1

Notes This element is part of a choice

packets

Context **configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate**

Description Enter the **packets** context

Introduced 16.0.R1

initial-delay *number*

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate packets**
Description	Number of packets allowed in an initial burst or burst after the policer bucket drained to zero
Range	0 to 255
Default	0
Units	packets
Introduced	16.0.R1
Notes	This element is part of a choice

limit (*keyword* | *number*)

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate packets**
Description	Overall packet arrival rate limit to be applied to all sources of packets
Range	0 to 255
Default	max
Units	packets per interval
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

within *number*

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **dynamic-parameters rate packets**
Description	Measurement interval for packets rate
Range	1 to 32767
Default	1
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

enforcement

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword*
Description	Enter the enforcement context
Introduced	16.0.R1

dynamic

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **enforcement**
Description	Enter the **dynamic** context
Introduced	16.0.R1

mon-policer-name *string*

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **enforcement dynamic**
Description	Name for the dynamic enforcement policer
Reference	configure **system security dist-cpu-protection policy** *string* **local-monitoring-policer** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

dynamic-local-mon-bypass

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **enforcement**
Description	Do not include packets from this protocol in the local monitoring function
Introduced	16.0.R1
Notes	This element is part of a choice

static

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **enforcement**
Description	Enter the **static** context
Introduced	16.0.R1

policer-name *string*

Context	**configure system security dist-cpu-protection policy** *string* **protocol** *keyword* **enforcement static**
Description	Static enforcement policer name
Reference	configure **system security dist-cpu-protection policy** *string* **static-policer** *string*
Introduced	16.0.R1
Notes	This element is part of a choice

static-policer [policer-name] *string*

Context	**configure system security dist-cpu-protection policy** *string*
Description	Enter the static-policer context
Max. Elements	18
Introduced	16.0.R1

[policer-name] *string*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string*
Description	Name for the distributed CPU protection static policer
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

detection-time *number*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string*
Description	Minimum time that an instantiated dynamic enforcing policer remains allocated
Range	1 to 128000
Default	30
Units	seconds
Introduced	16.0.R1

exceed-action

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string*
Description	Enter the exceed-action context
Introduced	16.0.R1

action *keyword*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **exceed-action**
Description	Action to perform upon the extracted control packets when configured policer rates are exceeded
Options	discard, low-priority, none
Introduced	16.0.R1

hold-down (*keyword* | *number*)

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **exceed-action**
Description	Hold down behavior
Range	1 to 10080
Default	none
Units	seconds
Options	indefinite, none
Introduced	16.0.R1

log-events *keyword*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string*
Description	Control of log events creation for static policer status and activity
Default	true
Options	false, true, verbose
Introduced	16.0.R1

rate

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string*
Description	Enter the rate context
Introduced	16.0.R1

kbps

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate**
Description	Enter the **kbps** context
Introduced	16.0.R1

limit (*keyword* | *number*)

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate kbps**
Description	Limiting rate and burst tolerance for the policer in a packet rate, or a bit rate
Range	1 to 20000000
Default	max
Units	kilobps
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

mbs *number*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate kbps**
Description	Buffer space assigned
Range	0 to 4194304
Units	bytes
Introduced	16.0.R1
Notes	This element is part of a choice

packets

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate**
Description	Enter the **packets** context
Introduced	16.0.R1

initial-delay *number*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate packets**
Description	Number of packets allowed in an initial burst or burst after the policer bucket drained to zero
Range	0 to 255
Default	0
Units	packets
Introduced	16.0.R1
Notes	This element is part of a choice

limit (*keyword* | *number*)

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate packets**
Description	Overall packet arrival rate limit to be applied to all sources of packets
Range	0 to 255
Default	max
Units	packets per interval
Options	max
Introduced	16.0.R1
Notes	This element is part of a choice

within *number*

Context	**configure system security dist-cpu-protection policy** *string* **static-policer** *string* **rate packets**
Description	Measurement interval for packets rate
Range	1 to 32767
Default	1
Units	seconds
Introduced	16.0.R1
Notes	This element is part of a choice

dot1x

Context	**configure system security**
Description	Enter the dot1x context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security dot1x**
Description	Administrative state of port access control in a system
Default	disable
Options	enable, disable
Introduced	16.0.R1

radius-policy [policy-name] *string*

Context	**configure system security dot1x**
Description	Enter the radius-policy context
Introduced	16.0.R1

[policy-name] *string*

Context	**configure system security dot1x radius-policy** *string*
Description	RADIUS server policy to use for 802.1X authentication
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security dot1x radius-policy** *string*
Description	Administrative state of this RADIUS server policy
Default	disable
Options	enable, disable
Introduced	16.0.R1

retry *number*

Context	**configure system security dot1x radius-policy** *string*
Description	Number of RADIUS requests toward the same RADIUS server
Range	1 to 10
Default	3
Introduced	16.0.R1

server [server-index] *number*

Context	**configure system security dot1x radius-policy** *string*
Description	Enter the server context
Max. Elements	5
Introduced	16.0.R1

[server-index] *number*

Context	**configure system security dot1x radius-policy** *string* **server** *number*
Description	RADIUS server index
Range	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

accounting-port *number*

Context	**configure system security dot1x radius-policy** *string* **server** *number*
Description	UDP port number on which to contact the RADIUS server for accounting requests
Range	1 to 65535
Default	1813
Introduced	16.0.R1

address *ipv4-unicast-address*

Context	**configure system security dot1x radius-policy** *string* **server** *number*
Description	IP address of the RADIUS server
Introduced	16.0.R1
Notes	This element is mandatory

authentication-port *number*

Context	**configure system security dot1x radius-policy** *string* **server** *number*
Description	UDP port number on which to contact the RADIUS server for authentication
Range	1 to 65535
Default	1812
Introduced	16.0.R1

secret *encrypted-leaf*

Context	**configure system security dot1x radius-policy** *string* **server** *number*
Description	Secret key associated with the RADIUS server
String Length	1 to 54
Introduced	16.0.R1
Notes	This element is mandatory

type *keyword*

Context	**configure system security dot1x radius-policy** *string* **server** *number*
Description	RADIUS server type
Default	authorization
Options	authorization, accounting, combined
Introduced	16.0.R1

source-address *ipv4-unicast-address*

Context	**configure system security dot1x radius-policy** *string*
Description	Source address of the RADIUS packet
Introduced	16.0.R1

timeout *number*

Context	**configure system security dot1x radius-policy** *string*
Description	Time assigned between the request retries toward the same RADIUS server
Range	1 to 90
Default	5
Units	seconds
Introduced	16.0.R1

ftp-server *boolean*

Context	**configure system security**
Description	Enable FTP servers running on the system
Default	false
Introduced	16.0.R1

hash-control

Context	**configure system security**
Description	Enter the hash-control context
Introduced	16.0.R1

management-interface

Context	**configure system security hash-control**
Description	Enter the management-interface context
Introduced	16.0.R1

classic-cli

Context	**configure system security hash-control management-interface**
Description	Enter the classic-cli context
Introduced	16.0.R1

read-algorithm *keyword*

Context	**configure system security hash-control management-interface classic-cli**
Description	Changes input of secret values
Default	all-hash
Options	all-hash, hash, hash2
Introduced	16.0.R1

write-algorithm *keyword*

Context	**configure system security hash-control management-interface classic-cli**
Description	Changes output of secret values
Default	hash2
Options	cleartext, hash, hash2
Introduced	16.0.R1

grpc

Context	**configure system security hash-control management-interface**
Description	Enter the grpc context
Introduced	16.0.R1

hash-algorithm *keyword*

Context	**configure system security hash-control management-interface grpc**
Description	Changes output of secret values
Default	hash2
Options	cleartext, hash, hash2
Introduced	16.0.R1

md-cli

Context	**configure system security hash-control management-interface**
Description	Enter the md-cli context
Introduced	16.0.R1

hash-algorithm *keyword*

Context	**configure system security hash-control management-interface md-cli**
Description	Changes output of secret values
Default	hash2
Options	cleartext, hash, hash2
Introduced	16.0.R1

netconf

Context	**configure system security hash-control management-interface**
Description	Enter the netconf context
Introduced	16.0.R1

hash-algorithm *keyword*

Context	**configure system security hash-control management-interface netconf**
Description	Changes output of secret values
Default	hash2
Options	cleartext, hash, hash2
Introduced	16.0.R1

keychains

Context	**configure system security**
Description	Enter the keychains context
Introduced	16.0.R1

keychain [keychain-name] *string*

Context	**configure system security keychains**
Description	Enter the keychain context
Max. Elements	256
Introduced	16.0.R1

[keychain-name] *string*

Context	**configure system security keychains keychain** *string*
Description	Keychain name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security keychains keychain** *string*
Description	Administrative state of the keychain
Default	enable
Options	enable, disable
Introduced	16.0.R1

bidirectional

Context	**configure system security keychains keychain** *string*
Description	Enter the bidirectional context
Introduced	16.0.R1

entry [keychain-entry-index] *number*

Context	**configure system security keychains keychain** *string* **bidirectional**
Description	Enter the entry context
Introduced	16.0.R1

[keychain-entry-index] *number*

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	Keychain identifier
Range	0 to 63 | 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	Administrative state of the keychain
Default	enable
Options	enable, disable
Introduced	16.0.R1

algorithm *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	Encryption algorithm used by the keychain key
Options	aes-128-cmac-96, hmac-sha-1-96, password, message-digest, hmac-md5, hmac-sha-1, hmac-sha-256
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	The key used by the encryption algorithm to sign and authenticate protocol packets.
String Length	1 to 54
Introduced	16.0.R4

begin-time *date-and-time*

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	Calendar date and time when the system starts using the key
Introduced	16.0.R1

option *keyword*

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	Keychain key option
Default	none
Options	none, basic, isis-enhanced
Introduced	16.0.R1

tolerance (*number* | *keyword*)

Context	**configure system security keychains keychain** *string* **bidirectional entry** *number*
Description	Time within which an eligible receive key should overlap with the active send key
Range	0 to 4294967294
Default	300
Options	infinite
Introduced	16.0.R1

description *string*

Context	**configure system security keychains keychain** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

receive

Context	**configure system security keychains keychain** *string*
Description	Enter the receive context
Introduced	16.0.R1

entry [keychain-entry-index] *number*

Context	**configure system security keychains keychain** *string* **receive**
Description	Enter the entry context
Introduced	16.0.R1

[keychain-entry-index] *number*

Context	**configure system security keychains keychain** *string* **receive entry** *number*
Description	Keychain identifier
Range	0 to 63 | 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security keychains keychain** *string* **receive entry** *number*
Description	Administrative state of the keychain
Default	enable
Options	enable, disable
Introduced	16.0.R1

algorithm *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security keychains keychain** *string* **receive entry** *number*
Description	Encryption algorithm used by the keychain key
Options	aes-128-cmac-96, hmac-sha-1-96, password, message-digest, hmac-md5, hmac-sha-1, hmac-sha-256
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security keychains keychain** *string* **receive entry** *number*
Description	The key used by the encryption algorithm to sign and authenticate protocol packets.
String Length	1 to 54
Introduced	16.0.R4

begin-time *date-and-time*

Context **configure system security keychains keychain** *string* **receive entry** *number*

Description Calendar date and time when the system starts using the key

Introduced 16.0.R1

end-time *date-and-time*

Context **configure system security keychains keychain** *string* **receive entry** *number*

Description Calendar date and time when the system should stop using the key

Introduced 16.0.R1

tolerance (*number* | *keyword*)

Context **configure system security keychains keychain** *string* **receive entry** *number*

Description Time within which an eligible receive key should overlap with the active send key

Range 0 to 4294967294

Default 300

Options infinite

Introduced 16.0.R1

send

Context **configure system security keychains keychain** *string*

Description Enter the send context

Introduced 16.0.R1

entry [keychain-entry-index] *number*

Context **configure system security keychains keychain** *string* **send**

Description Enter the entry context

Introduced 16.0.R1

[keychain-entry-index] *number*

Context	**configure system security keychains keychain** *string* **send entry** *number*
Description	Keychain identifier
Range	0 to 63 | 255
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security keychains keychain** *string* **send entry** *number*
Description	Administrative state of the keychain
Default	enable
Options	enable, disable
Introduced	16.0.R1

algorithm *keyword*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security keychains keychain** *string* **send entry** *number*
Description	Encryption algorithm used by the keychain key
Options	aes-128-cmac-96, hmac-sha-1-96, password, message-digest, hmac-md5, hmac-sha-1, hmac-sha-256
Introduced	16.0.R1

authentication-key *encrypted-leaf*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security keychains keychain** *string* **send entry** *number*
Description	The key used by the encryption algorithm to sign and authenticate protocol packets.
String Length	1 to 54
Introduced	16.0.R4

begin-time *date-and-time*

Context	**configure system security keychains keychain** *string* **send entry** *number*
Description	Calendar date and time when the system starts using the key
Introduced	16.0.R1

tcp-option-number

Context	**configure system security keychains keychain** *string*
Description	Enter the tcp-option-number context
Introduced	16.0.R1

receive *keyword*

Context	**configure system security keychains keychain** *string* **tcp-option-number**
Description	TCP option value expected in the TCP header of received packets
Default	option-254
Options	option-253, option-254, both, tcp-ao
Introduced	16.0.R1

send *keyword*

Context	**configure system security keychains keychain** *string* **tcp-option-number**
Description	TCP option value assigned in the TCP header of transmitted packets
Default	option-254
Options	option-253, option-254, tcp-ao
Introduced	16.0.R1

management

Context	**configure system security**
Description	Enter the **management** context
Introduced	16.0.R5

allow-ssh *boolean*

Context	**configure system security management**
Description	Allow/disallow access to ssh server.
Default	true
Introduced	16.0.R5

allow-telnet *boolean*

Context	**configure system security management**
Description	Allow/disallow access to telnet server.
Default	true
Introduced	16.0.R5

allow-telnet6 *boolean*

Context	**configure system security management**
Description	Allow/disallow access to telnet IPv6 server.
Default	true
Introduced	16.0.R5

management-access-filter

Context	**configure system security**
Description	Enter the management-access-filter context
Introduced	16.0.R1

ip-filter

Context	**configure system security management-access-filter**
Description	Enter the ip-filter context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security management-access-filter ip-filter**
Description	Administrative state of the MAF.
Default	enable
Options	enable, disable
Introduced	16.0.R1

default-action *keyword*

Context	**configure system security management-access-filter ip-filter**
Description	Specifies the default action for management access in the absence of a specific management access filter entry match.
Default	ignore-match
Options	ignore-match, accept, drop, reject
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure system security management-access-filter ip-filter**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security management-access-filter ip-filter entry** *number*
Description	The id used to uniquely identify this filter entry.
Range	1 to 9999
Introduced	16.0.R1
Notes	This element is part of a list key

action *keyword*

Context	**configure system security management-access-filter ip-filter entry** *number*
Description	Specifies the default action for management access in the absence of a specific management access filter entry match.
Default	ignore-match
Options	ignore-match, accept, drop, reject
Introduced	16.0.R1

description *string*

Context	**configure system security management-access-filter ip-filter entry** *number*
Description	Description for this entry
String Length	1 to 80
Introduced	16.0.R1

log-events *boolean*

Context	**configure system security management-access-filter ip-filter entry** *number*
Description	If is 'true', entry match logging is enabled.
Default	false
Introduced	16.0.R1

match

Context	**configure system security management-access-filter ip-filter entry** *number*
Description	Enter the match context
Introduced	16.0.R1

dst-port

Context	**configure system security management-access-filter ip-filter entry** *number* **match**
Description	Enter the dst-port context
Introduced	16.0.R1

mask *number*

Context **configure system security management-access-filter ip-filter entry** *number* **match dst-port**

Description Specifies mask to match.

Range 1 to 65535

Default 65535

Introduced 16.0.R1

port *number*

Context **configure system security management-access-filter ip-filter entry** *number* **match dst-port**

Description Specifies port to match.

Range 1 to 65535

Introduced 16.0.R1

Notes This element is mandatory

mgmt-port

Context **configure system security management-access-filter ip-filter entry** *number* **match**

Description Enter the mgmt-port context

Introduced 16.0.R1

cpm

Context **configure system security management-access-filter ip-filter entry** *number* **match mgmt-port**

Description Specifies source cpm.

Introduced 16.0.R1

Notes This element is part of a choice

lag-id *number*

Context **configure system security management-access-filter ip-filter entry** *number* **match mgmt-port**

Description Specifies source lag.

Range 1 to 800

Introduced 16.0.R1

Notes This element is part of a choice

port-id *port*

Context **configure system security management-access-filter ip-filter entry** *number* **match mgmt-port**

Description Specifies source port.

Introduced 16.0.R1

Notes This element is part of a choice

protocol (*number* | *keyword*)

Context **configure system security management-access-filter ip-filter entry** *number* **match**

Description Specifies protocol to match.

Introduced 16.0.R5

router-instance *string*

Context **configure system security management-access-filter ip-filter entry** *number* **match**

Description Specifies router instance to be matched.

Introduced 16.0.R5

src-ip

Context **configure system security management-access-filter ip-filter entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure system security management-access-filter ip-filter entry** *number* **match src-ip**

Description IP address or IP prefix.

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv4-address*

Context **configure system security management-access-filter ip-filter entry** *number* **match src-ip**

Description IP address mask.

Introduced 16.0.R1

Notes This element is part of a choice

ipv6-filter

Context **configure system security management-access-filter**

Description Enter the ipv6-filter context

Introduced 16.0.R1

admin-state *keyword*

Context **configure system security management-access-filter ipv6-filter**

Description Administrative state of the MAF.

Default enable

Options enable, disable

Introduced 16.0.R1

default-action *keyword*

Context **configure system security management-access-filter ipv6-filter**

Description Specifies the default action for management access in the absence of a specific management access filter entry match.

Default ignore-match

Options ignore-match, accept, drop, reject

Introduced 16.0.R1

entry [entry-id] *number*

Context	**configure system security management-access-filter ipv6-filter**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security management-access-filter ipv6-filter entry** *number*
Description	The id used to uniquely identify this filter entry.
Range	1 to 9999
Introduced	16.0.R1
Notes	This element is part of a list key

action *keyword*

Context	**configure system security management-access-filter ipv6-filter entry** *number*
Description	Specifies the default action for management access in the absence of a specific management access filter entry match.
Default	ignore-match
Options	ignore-match, accept, drop, reject
Introduced	16.0.R1

description *string*

Context	**configure system security management-access-filter ipv6-filter entry** *number*
Description	Description for this entry
String Length	1 to 80
Introduced	16.0.R1

log-events *boolean*

Context	**configure system security management-access-filter ipv6-filter entry** *number*
Description	If is 'true', entry match logging is enabled.
Default	false
Introduced	16.0.R1

match

Context **configure system security management-access-filter ipv6-filter entry** *number*

Description Enter the match context

Introduced 16.0.R1

dst-port

Context **configure system security management-access-filter ipv6-filter entry** *number* **match**

Description Enter the dst-port context

Introduced 16.0.R1

mask *number*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match dst-port**

Description Specifies mask to match.

Range 1 to 65535

Default 65535

Introduced 16.0.R1

port *number*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match dst-port**

Description Specifies port to match.

Range 1 to 65535

Introduced 16.0.R1

Notes This element is mandatory

flow-label *number*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match**

Description Specifies the flow label to be matched.

Range 0 to 1048575

Introduced 16.0.R5

mgmt-port

Context **configure system security management-access-filter ipv6-filter entry** *number* **match**

Description Enter the mgmt-port context

Introduced 16.0.R1

cpm

Context **configure system security management-access-filter ipv6-filter entry** *number* **match mgmt-port**

Description Specifies source cpm.

Introduced 16.0.R1

Notes This element is part of a choice

lag-id *number*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match mgmt-port**

Description Specifies source lag.

Range 1 to 800

Introduced 16.0.R1

Notes This element is part of a choice

port-id *port*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match mgmt-port**

Description Specifies source port.

Introduced 16.0.R1

Notes This element is part of a choice

next-header (*number* | *keyword*)

Context **configure system security management-access-filter ipv6-filter entry** *number* **match**

Description IPv6 next header to match. Because the match criteria only pertains to the last next-header, the following values will not match a filter entry: 0, 43, 44, 50, 51, and 60.

Introduced 16.0.R5

router-instance *string*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match**

Description Specifies router instance to be matched.

Introduced 16.0.R5

src-ip

Context **configure system security management-access-filter ipv6-filter entry** *number* **match**

Description Enter the src-ip context

Introduced 16.0.R1

address (*string* | *string*)

Context **configure system security management-access-filter ipv6-filter entry** *number* **match src-ip**

Description IPv6 address or IPv6 prefix.

Introduced 16.0.R1

Notes This element is part of a choice

mask *ipv6-address*

Context **configure system security management-access-filter ipv6-filter entry** *number* **match src-ip**

Description IPv6 address mask.

Introduced 16.0.R1

Notes This element is part of a choice

mac-filter

Context **configure system security management-access-filter**

Description Enter the mac-filter context

Introduced 16.0.R1

admin-state *keyword*

Context	**configure system security management-access-filter mac-filter**
Description	Administrative state of the MAF.
Default	enable
Options	enable, disable
Introduced	16.0.R1

default-action *keyword*

Context	**configure system security management-access-filter mac-filter**
Description	Specifies the default action for management access in the absence of a specific management access filter entry match.
Default	ignore-match
Options	ignore-match, accept, drop
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure system security management-access-filter mac-filter**
Description	Enter the entry context
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security management-access-filter mac-filter entry** *number*
Description	The id used to uniquely identify this filter entry.
Range	1 to 9999
Introduced	16.0.R1
Notes	This element is part of a list key

action *keyword*

Context	**configure system security management-access-filter mac-filter entry** *number*
Description	Specifies the default action for management access in the absence of a specific management access filter entry match.
Default	ignore-match
Options	ignore-match, accept, drop
Introduced	16.0.R1

description *string*

Context	**configure system security management-access-filter mac-filter entry** *number*
Description	Description for this entry
String Length	1 to 80
Introduced	16.0.R1

log-events *boolean*

Context	**configure system security management-access-filter mac-filter entry** *number*
Description	If is 'true', entry match logging is enabled.
Default	false
Introduced	16.0.R1

match

Context	**configure system security management-access-filter mac-filter entry** *number*
Description	Enter the match context
Introduced	16.0.R1

cfm-opcode

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Enter the cfm-opcode context
Introduced	16.0.R1

eq *number*

Context **configure system security management-access-filter mac-filter entry** *number* **match cfm-opcode**

Description Specifies the operator for op-code matching.

Range 0 to 255

Introduced 16.0.R1

Notes This element is part of a choice

gt *number*

Context **configure system security management-access-filter mac-filter entry** *number* **match cfm-opcode**

Description Specifies the operator for op-code matching.

Range 0 to 254

Introduced 16.0.R1

Notes This element is part of a choice

lt *number*

Context **configure system security management-access-filter mac-filter entry** *number* **match cfm-opcode**

Description Specifies the operator for op-code matching.

Range 1 to 255

Introduced 16.0.R1

Notes This element is part of a choice

range

Context **configure system security management-access-filter mac-filter entry** *number* **match cfm-opcode**

Description Enter the **range** context

Introduced 16.0.R1

end *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match cfm-opcode range**
Description	Specifies upper bound for the range of op-code to match.
Range	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

start *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match cfm-opcode range**
Description	Specifies lower bound for the range of op-code to match.
Range	0 to 254
Introduced	16.0.R1
Notes	This element is mandatory This element is part of a choice

dot1p

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Enter the dot1p context
Introduced	16.0.R1

mask *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match dot1p**
Description	Specifies a Dot1p value to assign to the traffic generated by this application.
Range	1 to 7
Default	7
Introduced	16.0.R1

priority *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match dot1p**
Description	Specifies a Dot1p value to assign to the traffic generated by this application.
Range	0 to 7
Introduced	16.0.R1
Notes	This element is mandatory

dst-mac

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Enter the dst-mac context
Introduced	16.0.R1

address *mac-address*

Context	**configure system security management-access-filter mac-filter entry** *number* **match dst-mac**
Description	MAC address
Introduced	16.0.R1
Notes	This element is mandatory

mask *mac-address*

Context	**configure system security management-access-filter mac-filter entry** *number* **match dst-mac**
Description	MAC address mask
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

etype *etype-value*

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Specifies the Ethertype for this MAC filter entry. This object has no significance if the object frame-type is not set to Ethernet_II.
String Length	5 to 6
Introduced	16.0.R1

frame-type *keyword*

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Specifies the type of mac frame for which we are defining this match criteria.
Default	802dot3
Options	802dot3, 802dot2-llc, 802dot2-snap, ethernet-ii, 802dot1-ag
Introduced	16.0.R1

llc-dsap

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Enter the llc-dsap context
Introduced	16.0.R1

dsap *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match llc-dsap**
Description	Specifies DSAP value.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

mask *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match llc-dsap**
Description	Specifies DSAP mask.
Range	1 to 255
Default	255
Introduced	16.0.R1

llc-ssap

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Enter the llc-ssap context
Introduced	16.0.R1

mask *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match llc-ssap**
Description	Specifies SSAP mask.
Range	1 to 255
Default	255
Introduced	16.0.R1

ssap *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match llc-ssap**
Description	Specifies SSAP value.
Range	0 to 255
Introduced	16.0.R1
Notes	This element is mandatory

service *service-name*

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Specifies the service id in which the packet is to be received for this entry to match.
String Length	1 to 64
Introduced	16.0.R1

snap-oui *keyword*

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Specifies snap-oui Match Criteria.
Options	zero, non-zero
Introduced	16.0.R1

snap-pid *number*

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Specifies snap-pid Match Criteria.
Range	0 to 65535
Introduced	16.0.R1

src-mac

Context	**configure system security management-access-filter mac-filter entry** *number* **match**
Description	Enter the src-mac context
Introduced	16.0.R1

address *mac-address*

Context	**configure system security management-access-filter mac-filter entry** *number* **match src-mac**
Description	MAC address
Introduced	16.0.R1
Notes	This element is mandatory

mask *mac-address*

Context	**configure system security management-access-filter mac-filter entry** *number* **match src-mac**
Description	MAC address mask
Default	ff:ff:ff:ff:ff:ff
Introduced	16.0.R1

per-peer-queuing *boolean*

Context	**configure system security**
Description	Allow a separate control plane queue for each LDP and BGP peering session to improve DoS protection
Introduced	16.0.R1

pki

Context	**configure system security**
Description	Enter the pki context
Introduced	16.0.R1

ca-profile [ca-profile-name] *string*

Context	**configure system security pki**
Description	Enter the ca-profile context
Max. Elements	128
Introduced	16.0.R1

[ca-profile-name] *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string*
Description	Certificate Authority (CA) profile name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security pki ca-profile** *string*
Description	Administrative state of the CA profile
Default	disable
Options	enable, disable
Introduced	16.0.R1

auto-crl-update

Context	**configure system security pki ca-profile** *string*
Description	Enter the auto-crl-update context
Introduced	16.0.R1

admin-state *keyword*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update**
Description	Administrative state of the automatic CRL update
Default	disable
Options	enable, disable
Introduced	16.0.R1

crl-urls

Context	**configure system security pki ca-profile** *string* **auto-crl-update**
Description	Enter the crl-urls context
Introduced	16.0.R1

url-entry [entry-id] *number*

Context	**configure system security pki ca-profile** *string* **auto-crl-update crl-urls**
Description	Enter the url-entry context
Introduced	16.0.R1

[entry-id] *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update crl-urls url-entry** *number*
Description	URL on this system
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

transmission-profile *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update crl-urls url-entry** *number*
Description	File transmission profile to update CRL
Reference	configure **system transmission-profile** *string*
Introduced	16.0.R1

url *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update crl-urls url-entry** *number*
Description	Location of updated CRL
Introduced	16.0.R1

periodic-update-interval *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update**
Description	Interval between two consecutive CRL updates
Range	3600 to 31622400
Default	86400
Units	seconds
Introduced	16.0.R1

pre-update-time *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update**
Description	Time prior to the next update time of the current CRL
Range	0 to 31622400
Default	3600
Units	seconds
Introduced	16.0.R1

retry-interval *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update**
Description	Interval before retrying to update CRL
Range	0 to 31622400
Default	3600
Units	seconds
Introduced	16.0.R1

schedule-type *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **auto-crl-update**
Description	Time scheduler type for an automated CRL update
Default	next-update-based
Options	next-update-based, periodic
Introduced	16.0.R1

cert-file *pki-file-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string*
Description	Certificate file name
String Length	1 to 95
Introduced	16.0.R1

cmpv2

Context	**configure system security pki ca-profile** *string*
Description	Enter the cmpv2 context
Introduced	16.0.R1

accept-unprotected-message

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	Enter the accept-unprotected-message context
Introduced	16.0.R1

error-message *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 accept-unprotected-message**
Description	Accept unprotected error messages
Default	false
Introduced	16.0.R1

pkiconf-message *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 accept-unprotected-message**
Description	Accept unprotected PKI confirmation messages
Default	false
Introduced	16.0.R1

always-set-sender-for-ir *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	Subject name in CMPv2 header for all Initial Registration (IR) messages
Default	false
Introduced	16.0.R1

http

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	Enter the http context
Introduced	16.0.R1

response-timeout *number*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 http**
Description	HTTP response timeout
Range	1 to 3600
Default	30
Units	seconds
Introduced	16.0.R1

version *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 http**
Description	HTTP version for CMPv2 messages
Default	1.1
Options	1.0, 1.1
Introduced	16.0.R1

key-list

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	Enter the key-list context
Introduced	16.0.R1

key [reference-number] *string*

Context	**configure system security pki ca-profile** *string* **cmpv2 key-list**
Description	Enter the key context
Max. Elements	128
Introduced	16.0.R1

[reference-number] *string*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 key-list key** *string*
Description	Unique identifier for the CA initial authentication key
String Length	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

password *encrypted-leaf*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 key-list key** *string*
Description	Shared secret for this CA initial authentication key
String Length	1 to 114
Introduced	16.0.R1

response-signing-cert *pki-file-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	File name of the certificate to verify the signature of received CMPv2 responses
String Length	1 to 95
Introduced	16.0.R1

same-recipient-nonce-for-poll-request *boolean*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	Same recipNonce as the last CMPv2 response for a poll request
Default	false
Introduced	16.0.R1

url

Context	**configure system security pki ca-profile** *string* **cmpv2**
Description	Enter the url context
Introduced	16.0.R1

service-name *service-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 url**
Description	Service name for the CMPv2 URL
String Length	1 to 64
Introduced	16.0.R1

url-string *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **cmpv2 url**
Description	URL for CMPv2
Introduced	16.0.R1

crl-file *pki-file-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string*
Description	Certificate Revocation List (CRL) file name
String Length	1 to 95
Introduced	16.0.R1

description *string*

Context	**configure system security pki ca-profile** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

ocsp

Context	**configure system security pki ca-profile** *string*
Description	Enter the ocsp context
Introduced	16.0.R1

responder-url *string*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **ocsp**
Description	HTTP URL of the OCSP responder for the CA
Introduced	16.0.R1

service-name *service-name*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string* **ocsp**
Description	Service name for the OCSP URL
String Length	1 to 64
Introduced	16.0.R1

revocation-check *keyword*



Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure system security pki ca-profile** *string*
Description	Method to verify the revocation status of certificates issued by the CA
Default	crl
Options	crl, crl-optional
Introduced	16.0.R1

certificate-display-format *keyword*

Context	**configure system security pki**
Description	Display format for certificates and Certificate Revocation Lists (CRLs)
Default	ascii
Options	ascii, utf8
Introduced	16.0.R1

certificate-expiration-warning

Context	**configure system security pki**
Description	Enter the certificate-expiration-warning context
Introduced	16.0.R1

hours *number*

Context	**configure system security pki certificate-expiration-warning**
Description	Time at which the system generates the certificate expiration warning trap for in-use certificates
Range	0 to 8760
Units	hours
Introduced	16.0.R1

repeat-hours *number*

Context	**configure system security pki certificate-expiration-warning**
Description	Time period when the system repeatedly generates the certificate expiration warning trap
Range	0 to 8760
Default	0
Units	hours
Introduced	16.0.R1

common-name-list [cn-list-name] *string*

Context	**configure system security pki**
Description	Enter the common-name-list context
Max. Elements	64
Introduced	16.0.R1

[cn-list-name] *string*

Context	**configure system security pki common-name-list** *string*
Description	Name for the common name list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

common-name [cn-index] *number*

Context **configure system security pki common-name-list** *string*
Description Enter the common-name context
Introduced 16.0.R1

[cn-index] *number*

Context **configure system security pki common-name-list** *string* **common-name** *number*
Description Common name index
Range 1 to 128
Introduced 16.0.R1
Notes This element is part of a list key

cn-type *keyword*

Context **configure system security pki common-name-list** *string* **common-name** *number*
Description Common name type
Options ip-address, domain-name
Introduced 16.0.R1
Notes This element is mandatory

cn-value *regular-expression-not-all-spaces*

Context **configure system security pki common-name-list** *string* **common-name** *number*
Description Common name value
String Length 1 to 255
Introduced 16.0.R1
Notes This element is mandatory

crl-expiration-warning

Context **configure system security pki**
Description Enter the crl-expiration-warning context
Introduced 16.0.R1

hours *number*

Context	**configure system security pki crl-expiration-warning**
Description	Time when the system generates the Certificate Revocation List (CRL) expiration warning trap
Range	0 to 8760
Units	hours
Introduced	16.0.R1

repeat-hours *number*

Context	**configure system security pki crl-expiration-warning**
Description	Time when the system repeatedly generates the Certificate Revocation List (CRL) expiration warning trap
Range	0 to 8760
Default	0
Units	hours
Introduced	16.0.R1

maximum-cert-chain-depth *number*

Context	**configure system security pki**
Description	Maximum depth of certificate chain verification
Range	1 to 7
Default	7
Introduced	16.0.R1

snmp

Context	**configure system security**
Description	Enter the snmp context
Introduced	16.0.R1

access [group] *string* **context** *string* **security-model** *keyword* **security-level** *keyword*

Context	**configure system security snmp**
Description	Enter the access context
Introduced	16.0.R1

[group] *string*

Context	**configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*
Description	Group name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

context *string*

Context	**configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*
Description	String against which the context name should match to gain access rights
String Length	1 to 32
Default	_sros_none
Introduced	16.0.R1
Notes	This element is part of a list key

security-model *keyword*

Context	**configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*
Description	Security model
Options	snmpv1, snmpv2c, usm
Introduced	16.0.R1
Notes	This element is part of a list key

security-level *keyword*

Context	**configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*
Description	Minimum level of security required to gain the access rights allowed by this entry
Options	no-auth-no-privacy, auth-no-privacy, privacy
Introduced	16.0.R1
Notes	This element is part of a list key

notify *string*

Context **configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*

Description MIB view of SNMP context to which access for notifications is authorized by this conceptual row

String Length 1 to 32

Introduced 16.0.R1

prefix-match *keyword*

Context **configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*

Description Type of the context name match

Options exact, prefix

Introduced 16.0.R1

read *string*

Context **configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*

Description Specifies the MIB view of the SNMP context to which this conceptual row authorizes read access.

String Length 1 to 32

Introduced 16.0.R1

write *string*

Context **configure system security snmp access** *string* **context** *string* **security-model** *keyword* **security-level** *keyword*

Description Specifies the MIB view of the SNMP context to which this conceptual row authorizes write access.

String Length 1 to 32

Introduced 16.0.R1

attempts

Context **configure system security snmp**

Description Enter the attempts context

Introduced 16.0.R1

count *number*

Context	**configure system security snmp attempts**
Description	Maximum unsuccessful SNMP attempts that are allowed for the specified time
Range	1 to 64
Default	20
Introduced	16.0.R1

lockout *number*

Context	**configure system security snmp attempts**
Description	Lockout period during which the host is not allowed to log in
Range	0 to 1440
Default	10
Units	minutes
Introduced	16.0.R1

time *number*

Context	**configure system security snmp attempts**
Description	Time when a number of unsuccessful attempts are made before the host is locked out
Range	0 to 60
Default	5
Units	minutes
Introduced	16.0.R1

community [community-string] *encrypted-leaf*

Context	**configure system security snmp**
Description	Enter the community context
Introduced	16.0.R1

[community-string] *encrypted-leaf*

Context	**configure system security snmp community** *encrypted-leaf*
Description	Management information that is accessed when using the community string
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is part of a list key

access-permissions *keyword*

Context	**configure system security snmp community** *encrypted-leaf*
Description	SNMP community name(s) to be used with the associated VPRN instance
Options	r, rw, rwa, mgmt, vpls-mgmt
Introduced	16.0.R1
Notes	This element is mandatory

source-access-list *string*

Context	**configure system security snmp community** *encrypted-leaf*
Description	Management information to be accessed when using the community string
Reference	configure **system security snmp source-access-list** *string*
Introduced	16.0.R1

version *keyword*

Context	**configure system security snmp community** *encrypted-leaf*
Description	SNMP version
Default	both
Options	v1, v2c, both
Introduced	16.0.R1

source-access-list [list-name] *string*

Context	**configure system security snmp**
Description	Enter the source-access-list context
Max. Elements	16
Introduced	16.0.R1

[list-name] *string*

Context	**configure system security snmp source-access-list** *string*
Description	Value for the name given to source access list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

source-host [host-name] *string*

Context	**configure system security snmp source-access-list** *string*
Description	Enter the source-host context
Max. Elements	16
Introduced	16.0.R1

[host-name] *string*

Context	**configure system security snmp source-access-list** *string* **source-host** *string*
Description	Source host entry name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

address (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system security snmp source-access-list** *string* **source-host** *string*
Description	Address of the source host entry
Introduced	16.0.R1
Notes	This element is mandatory

usm-community [community-string] *encrypted-leaf*

Context	**configure system security snmp**
Description	Enter the usm-community context
Introduced	16.0.R1

[community-string] *encrypted-leaf*

Context	**configure system security snmp usm-community** *encrypted-leaf*
Description	SNMPv1/SNMPv2 community string to determine the SNMPv3 access permission
String Length	1 to 114
Introduced	16.0.R1
Notes	This element is part of a list key

group *string*

Context	**configure system security snmp usm-community** *encrypted-leaf*
Description	Group to manage the access rights of the community string
String Length	1 to 32
Introduced	16.0.R1

source-access-list *string*

Context	**configure system security snmp usm-community** *encrypted-leaf*
Description	Management information to be accessed when using the community string
Reference	configure **system security snmp source-access-list** *string*
Introduced	16.0.R1

view [view-name] *string* **subtree** *string*

Context	**configure system security snmp**
Description	Enter the view context
Introduced	16.0.R1

[view-name] *string*

Context	**configure system security snmp view** *string* **subtree** *string*
Description	Name of the view to display output
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

subtree *string*

Context	**configure system security snmp view** *string* **subtree** *string*
Description	Object Identifier (OID) value
String Length	1 to 256
Introduced	16.0.R1
Notes	This element is part of a list key

mask *string*

Context	**configure system security snmp view** *string* **subtree** *string*
Description	Mask value as binary value, or hex value
String Length	1 to 16
Introduced	16.0.R1

type *keyword*

Context	**configure system security snmp view** *string* **subtree** *string*
Description	Type of SNMP security view mask
Options	included, excluded
Introduced	16.0.R1

source-address

Context	**configure system security**
Description	Enter the source-address context
Introduced	16.0.R1

ipv4 [application] *keyword*

Context	**configure system security source-address**
Description	Enter the ipv4 context
Introduced	16.0.R1

[application] *keyword*

Context	**configure system security source-address ipv4** *keyword*
Description	Source IP address for the application
Options	telnet, ftp, ssh, radius, tacplus, snmptrap, syslog, ping, traceroute, dns, sntp, ntp, cflowd, ptp, mcreporter, sflow, icmp-error, ldap
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv4-address*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security source-address ipv4** *keyword*
Description	Source IPv4 address to be used in all packets sent by the application
Introduced	16.0.R1
Notes	This element is part of a choice

interface-name *interface-name*

Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security source-address ipv4** *keyword*
Description	Interface name whose IP address to be used in all packets sent by the application
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a choice

ipv6 [application] *keyword*

Context	**configure system security source-address**
Description	Enter the ipv6 context
Introduced	16.0.R1

[application] *keyword*

Context	**configure system security source-address ipv6** *keyword*
Description	Source IPv6 address for the application
Options	telnet, ftp, radius, tacplus, snmptrap, syslog, ping, traceroute, dns, cflowd, ntp, sflow, icmp6-error, ldap
Introduced	16.0.R1
Notes	This element is part of a list key

address *ipv6-address*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure system security source-address ipv6** *keyword*
Description	Source IPv6 address to be used in all packets sent by the application
Introduced	16.0.R1
Notes	This element is mandatory

ssh

Context	**configure system security**
Description	Enter the ssh context
Introduced	16.0.R1

client-cipher-list-v1

Context	**configure system security ssh**
Description	Enter the client-cipher-list-v1 context
Introduced	16.0.R1

cipher [index] *number*

Context	**configure system security ssh client-cipher-list-v1**
Description	Enter the cipher context
Introduced	16.0.R1

[index] *number*

Context **configure system security ssh client-cipher-list-v1 cipher** *number*
Description Index of the cipher
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a list key

name *keyword*

Context **configure system security ssh client-cipher-list-v1 cipher** *number*
Description Cipher name value
Options des, 3des, blowfish
Introduced 16.0.R1
Notes This element is mandatory

client-cipher-list-v2

Context **configure system security ssh**
Description Enter the client-cipher-list-v2 context
Introduced 16.0.R1

cipher [index] *number*

Context **configure system security ssh client-cipher-list-v2**
Description Enter the cipher context
Introduced 16.0.R1

[index] *number*

Context **configure system security ssh client-cipher-list-v2 cipher** *number*
Description Index of the cipher
Range 1 to 255
Introduced 16.0.R1
Notes This element is part of a list key

name *keyword*

Context	**configure system security ssh client-cipher-list-v2 cipher** *number*
Description	Cipher name value
Options	3des-cbc, blowfish-cbc, cast128-cbc, arcfour, aes128-cbc, aes192-cbc, aes256-cbc, rijndael-cbc, aes128-ctr, aes192-ctr, aes256-ctr
Introduced	16.0.R1
Notes	This element is mandatory

client-mac-list-v2

Context	**configure system security ssh**
Description	Enter the client-mac-list-v2 context
Introduced	16.0.R1

mac [index] *number*

Context	**configure system security ssh client-mac-list-v2**
Description	Enter the mac context
Introduced	16.0.R1

[index] *number*

Context	**configure system security ssh client-mac-list-v2 mac** *number*
Description	MAC algorithm index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

name *keyword*

Context	**configure system security ssh client-mac-list-v2 mac** *number*
Description	MAC algorithm that performs encryption or decryption
Options	hmac-sha2-512, hmac-sha2-256, hmac-sha1, hmac-sha1-96, hmac-md5, hmac-ripemd160, hmac-ripemd160-openssh-com, hmac-md5-96
Introduced	16.0.R1
Notes	This element is mandatory

key-re-exchange

Context	**configure system security ssh**
Description	Enter the key-re-exchange context
Introduced	16.0.R1

client

Context	**configure system security ssh key-re-exchange**
Description	Enter the client context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security ssh key-re-exchange client**
Description	Administrative state of the key re-exchange
Default	enable
Options	enable, disable
Introduced	16.0.R1

mbytes (*number* | *keyword*)

Context	**configure system security ssh key-re-exchange client**
Description	Number of megabytes on a SSH session after which the SSH client initiates the key-re-exchange
Range	1 to 64000
Default	1024
Units	megabytes
Options	infinite
Introduced	16.0.R1

minutes (*number* | *keyword*)

Context	**configure system security ssh key-re-exchange client**
Description	Time interval after which the SSH client initiates the key-re-exchange
Range	1 to 1440
Default	60
Units	minutes
Options	infinite
Introduced	16.0.R1

server

Context	**configure system security ssh key-re-exchange**
Description	Enter the server context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system security ssh key-re-exchange server**
Description	Administrative state of the key re-exchange
Default	enable
Options	enable, disable
Introduced	16.0.R1

mbytes (*number* | *keyword*)

Context	**configure system security ssh key-re-exchange server**
Description	Number of megabytes on a SSH session after which the SSH client initiates the key-re-exchange
Range	1 to 64000
Default	1024
Units	megabytes
Options	infinite
Introduced	16.0.R1

minutes (*number* | *keyword*)

Context	**configure system security ssh key-re-exchange server**
Description	Time interval after which the SSH client initiates the key-re-exchange
Range	1 to 1440
Default	60
Units	minutes
Options	infinite
Introduced	16.0.R1

preserve-key *boolean*

Context	**configure system security ssh**
Description	Save keys on SSH server and restore following a system reboot or SSH server restart
Default	false
Introduced	16.0.R1

server-admin-state *keyword*

Context	**configure system security ssh**
Description	Administrative state of the SSH server
Default	enable
Options	enable, disable
Introduced	16.0.R1

server-cipher-list-v1

Context	**configure system security ssh**
Description	Enter the server-cipher-list-v1 context
Introduced	16.0.R1

cipher [index] *number*

Context	**configure system security ssh server-cipher-list-v1**
Description	Enter the cipher context
Introduced	16.0.R1

[index] *number*

Context	**configure system security ssh server-cipher-list-v1 cipher** *number*
Description	Index of the cipher
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

name *keyword*

Context	**configure system security ssh server-cipher-list-v1 cipher** *number*
Description	Cipher name value
Options	des, 3des, blowfish
Introduced	16.0.R1
Notes	This element is mandatory

server-cipher-list-v2

Context	**configure system security ssh**
Description	Enter the server-cipher-list-v2 context
Introduced	16.0.R1

cipher [index] *number*

Context	**configure system security ssh server-cipher-list-v2**
Description	Enter the cipher context
Introduced	16.0.R1

[index] *number*

Context	**configure system security ssh server-cipher-list-v2 cipher** *number*
Description	Index of the cipher
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

name *keyword*

Context	**configure system security ssh server-cipher-list-v2 cipher** *number*
Description	Cipher name value
Options	3des-cbc, blowfish-cbc, cast128-cbc, arcfour, aes128-cbc, aes192-cbc, aes256-cbc, rijndael-cbc, aes128-ctr, aes192-ctr, aes256-ctr
Introduced	16.0.R1
Notes	This element is mandatory

server-mac-list-v2

Context	**configure system security ssh**
Description	Enter the server-mac-list-v2 context
Introduced	16.0.R1

mac [index] *number*

Context	**configure system security ssh server-mac-list-v2**
Description	Enter the mac context
Introduced	16.0.R1

[index] *number*

Context	**configure system security ssh server-mac-list-v2 mac** *number*
Description	MAC algorithm index
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

name *keyword*

Context	**configure system security ssh server-mac-list-v2 mac** *number*
Description	MAC algorithm that performs encryption or decryption
Options	hmac-sha2-512, hmac-sha2-256, hmac-sha1, hmac-sha1-96, hmac-md5, hmac-ripemd160, hmac-ripemd160-openssh-com, hmac-md5-96
Introduced	16.0.R1
Notes	This element is mandatory

version *keyword*

Context	**configure system security ssh**
Description	SSH protocol version to be supported by the SSH server
Default	2
Options	1, 2, 1-2
Introduced	16.0.R1

system-passwords

Context	**configure system security**
Description	Enter the system-passwords context
Introduced	16.0.R1

admin-password *hashed-leaf*

Context	**configure system security system-passwords**
Description	Password that assigns the user as administrator
String Length	3 to 102
Introduced	16.0.R1

vsd-password *hashed-leaf*

Context	**configure system security system-passwords**
Description	Password that allows the user to assign VSD services
String Length	3 to 102
Introduced	16.0.R1

tech-support

Context	**configure system security**
Description	Enter the tech-support context
Introduced	16.0.R1

ts-location (*ts-sat-url* | *ts-cflash-url* | *string*)

Context	**configure system security tech-support**
Description	Default file path for generated tech-support files
Introduced	16.0.R1

telnet-server *boolean*

Context	**configure system security**
Description	Enable telnet servers running on the system
Default	false
Introduced	16.0.R1

telnet6-server *boolean*

Context	**configure system security**
Description	Enable telnet IPv6 servers running on the system
Default	false
Introduced	16.0.R1

tls

Context	**configure system security**
Description	Enter the tls context
Introduced	16.0.R1

cert-profile [cert-profile-name] *string*

Context	**configure system security tls**
Description	Enter the cert-profile context
Max. Elements	16
Introduced	16.0.R1

[cert-profile-name] *string*

Context	**configure system security tls cert-profile** *string*
Description	TLS certificate profile name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security tls cert-profile** *string*
Description	Administrative state of the certificate profile
Default	disable
Options	enable, disable
Introduced	16.0.R1

entry [entry-id] *number*

Context	**configure system security tls cert-profile** *string*
Description	Enter the entry context
Max. Elements	8
Introduced	16.0.R1

[entry-id] *number*

Context	**configure system security tls cert-profile** *string* **entry** *number*
Description	Certificate profile ID
Range	1 to 8
Introduced	16.0.R1
Notes	This element is part of a list key

certificate-file *string*

Context	**configure system security tls cert-profile** *string* **entry** *number*
Description	Certificate file name
String Length	1 to 95
Introduced	16.0.R1

key-file *string*

Context	**configure system security tls cert-profile** *string* **entry** *number*
Description	Key file name
String Length	1 to 95
Introduced	16.0.R1

send-chain

Context	**configure system security tls cert-profile** *string* **entry** *number*
Description	Enter the send-chain context
Introduced	16.0.R1

ca-profile [ca-profile-name] *string*

Context	**configure system security tls cert-profile** *string* **entry** *number* **send-chain**
Description	Enter the ca-profile context
Max. Elements	7
Introduced	16.0.R1

[ca-profile-name] *string*

Context	**configure system security tls cert-profile** *string* **entry** *number* **send-chain ca-profile** *string*
Description	Certificate Authority (CA) profile name
Reference	configure **system security pki ca-profile** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

client-cipher-list [client-cipher-list-name] *string*

Context	**configure system security tls**
Description	Enter the client-cipher-list context
Max. Elements	16
Introduced	16.0.R1

[client-cipher-list-name] *string*

Context	**configure system security tls client-cipher-list** *string*
Description	TLS client cipher list
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

cipher [index] *number*

Context	**configure system security tls client-cipher-list** *string*
Description	Enter the cipher context
Introduced	16.0.R1

[index] *number*

Context	**configure system security tls client-cipher-list** *string* **cipher** *number*
Description	Index of the cipher
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

name *keyword*

Context	**configure system security tls client-cipher-list** *string* **cipher** *number*
Description	Value for the cipher suite code
Options	tls-rsa-with-null-md5, tls-rsa-with-null-sha, tls-rsa-with3des-ede-cbc-sha, tls-rsa-with-aes128-cbc-sha, tls-rsa-with-aes256-cbc-sha, tls-rsa-with-null-sha256, tls-rsa-with-aes128-cbc-sha256, tls-rsa-with-aes256-cbc-sha256
Introduced	16.0.R1
Notes	This element is mandatory

client-tls-profile [client-profile-name] *string*

Context	**configure system security tls**
Description	Enter the client-tls-profile context
Max. Elements	16
Introduced	16.0.R1

[client-profile-name] *string*

Context	**configure system security tls client-tls-profile** *string*
Description	Name of TLS client profile.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security tls client-tls-profile** *string*
Description	Administrative state of the client TLS profile
Default	disable
Options	enable, disable
Introduced	16.0.R1

cert-profile *string*

Context	**configure system security tls client-tls-profile** *string*
Description	Certificate profile ID
Reference	configure **system security tls cert-profile** *string*
Introduced	16.0.R1

cipher-list *string*

Context	**configure system security tls client-tls-profile** *string*
Description	Specifies the ordered list of supported cipher suite codes associated with this TLS client profile.
Reference	configure **system security tls client-cipher-list** *string*
Introduced	16.0.R1

trust-anchor-profile *string*

Context	**configure system security tls client-tls-profile** *string*
Description	Trust anchor profile
Reference	configure **system security tls trust-anchor-profile** *string*
Introduced	16.0.R1

server-cipher-list [server-cipher-list-name] *string*

Context	**configure system security tls**
Description	Enter the server-cipher-list context
Max. Elements	16
Introduced	16.0.R1

[server-cipher-list-name] *string*

Context	**configure system security tls server-cipher-list** *string*
Description	Name of TLS server cipher list.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

cipher [index] *number*

Context	**configure system security tls server-cipher-list** *string*
Description	Enter the cipher context
Introduced	16.0.R1

[index] *number*

Context	**configure system security tls server-cipher-list** *string* **cipher** *number*
Description	Index of the cipher
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

name *keyword*

Context	**configure system security tls server-cipher-list** *string* **cipher** *number*
Description	Value for the cipher suite code
Options	tls-rsa-with-null-md5, tls-rsa-with-null-sha, tls-rsa-with3des-ede-cbc-sha, tls-rsa-with-aes128-cbc-sha, tls-rsa-with-aes256-cbc-sha, tls-rsa-with-null-sha256, tls-rsa-with-aes128-cbc-sha256, tls-rsa-with-aes256-cbc-sha256
Introduced	16.0.R1
Notes	This element is mandatory

server-tls-profile [server-profile-name] *string*

Context	**configure system security tls**
Description	Enter the server-tls-profile context
Max. Elements	16
Introduced	16.0.R1

[server-profile-name] *string*

Context	**configure system security tls server-tls-profile** *string*
Description	Name of TLS server profile.
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure system security tls server-tls-profile** *string*
Description	Administrative state of the server TLS profile
Default	disable
Options	enable, disable
Introduced	16.0.R1

authenticate-client

Context	**configure system security tls server-tls-profile** *string*
Description	Enter the authenticate-client context
Introduced	16.0.R1

common-name-list *string*

Context	**configure system security tls server-tls-profile** *string* **authenticate-client**
Description	Common name list for TLS client certificate authentication
Reference	configure **system security pki common-name-list** *string*
Introduced	16.0.R1

trust-anchor-profile *string*

Context	**configure system security tls server-tls-profile** *string* **authenticate-client**
Description	Trust anchor profile for TLS client certificate authentication
Reference	configure **system security tls trust-anchor-profile** *string*
Introduced	16.0.R1

cert-profile *string*

Context	**configure system security tls server-tls-profile** *string*
Description	Certificate profile ID
Reference	configure **system security tls cert-profile** *string*
Introduced	16.0.R1

cipher-list *string*

Context	**configure system security tls server-tls-profile** *string*
Description	Specifies the ordered list of supported cipher suite codes associated with this TLS client profile.
Reference	configure **system security tls server-cipher-list** *string*
Introduced	16.0.R1

tls-re-negotiate-timer *number*

Context	**configure system security tls server-tls-profile** *string*
Description	TLS HELLO request timer
Range	0 to 65000
Default	0
Units	minutes
Introduced	16.0.R1

trust-anchor-profile [trust-anchor-profile-name] *string*

Context	**configure system security tls**
Description	Enter the trust-anchor-profile context
Max. Elements	16
Introduced	16.0.R1

[trust-anchor-profile-name] *string*

Context	**configure system security tls trust-anchor-profile** *string*
Description	Name of TLS trust anchor profile
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

trust-anchor [ca-profile-name] *string*

Context	**configure system security tls trust-anchor-profile** *string*
Description	Enter the trust-anchor context
Max. Elements	8
Introduced	16.0.R1

[ca-profile-name] *string*

Context	**configure system security tls trust-anchor-profile** *string* **trust-anchor** *string*
Description	Trusted CA profile
Reference	configure **system security pki ca-profile** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

user-params

Context	**configure system security**
Description	Enter the user-params context
Introduced	16.0.R1

attempts

Context	**configure system security user-params**
Description	Enter the attempts context
Introduced	16.0.R1

count *number*

Context	**configure system security user-params attempts**
Description	Number of unsuccessful login attempts
Range	1 to 64
Default	3
Introduced	16.0.R1

lockout *number*

Context	**configure system security user-params attempts**
Description	Lockout period after unsuccessful login attempts
Range	0 to 1440
Default	10
Units	minutes
Introduced	16.0.R1

time *number*

Context	**configure system security user-params attempts**
Description	Time frame of unsuccessful login attempts
Range	0 to 60
Default	5
Units	minutes
Introduced	16.0.R1

authentication-order

Context	**configure system security user-params**
Description	Enter the authentication-order context
Introduced	16.0.R1

exit-on-reject *boolean*

Context	**configure system security user-params authentication-order**
Description	Ignore subsequent AAA methods in authentication order when a reject is received
Default	false
Introduced	16.0.R1

order *keyword*

Context	**configure system security user-params authentication-order**
Description	Sequence of password authentication, authorization, and accounting
Options	local, radius, tacplus, ldap
Max. Elements	4
Introduced	16.0.R1
Notes	This element is ordered by user

local-user

Context	**configure system security user-params**
Description	Enter the local-user context
Introduced	16.0.R1

password

Context	**configure system security user-params local-user**
Description	Enter the password context
Introduced	16.0.R1

aging *number*

Context	**configure system security user-params local-user password**
Description	Maximum time during which a user password is valid
Range	1 to 500
Units	days
Introduced	16.0.R1

complexity-rules

Context	**configure system security user-params local-user password**
Description	Enter the complexity-rules context
Introduced	16.0.R1

allow-user-name *boolean*

Context	**configure system security user-params local-user password complexity-rules**
Description	User name as part of the password
Default	false
Introduced	16.0.R1

credits

Context	**configure system security user-params local-user password complexity-rules**
Description	Enter the **credits** context
Introduced	16.0.R1

lowercase *number*

Context	**configure system security user-params local-user password complexity-rules credits**
Description	Maximum credits given for the usage of lowercase letters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

numeric *number*

Context	**configure system security user-params local-user password complexity-rules credits**
Description	Maximum credits given for the usage of numeric characters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

special-character *number*

Context	**configure system security user-params local-user password complexity-rules credits**
Description	Maximum credits given for the usage of special characters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

uppercase *number*

Context	**configure system security user-params local-user password complexity-rules credits**
Description	Maximum credits given for the usage of uppercase letters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

minimum-classes *number*

Context	**configure system security user-params local-user password complexity-rules**
Description	Force the use of different character classes for a minimum number
Range	2 to 4
Introduced	16.0.R1

minimum-length *number*

Context	**configure system security user-params local-user password complexity-rules**
Description	Minimum length required for local passwords
Range	6 to 50
Default	6
Introduced	16.0.R1

repeated-characters *number*

Context	**configure system security user-params local-user password complexity-rules**
Description	Number of times the same character appears consecutively
Range	2 to 8
Introduced	16.0.R1

required

Context	**configure system security user-params local-user password complexity-rules**
Description	Enter the **required** context
Introduced	16.0.R1

lowercase *number*

Context	**configure system security user-params local-user password complexity-rules required**
Description	Number required for lowercase letters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

numeric *number*

Context	**configure system security user-params local-user password complexity-rules required**
Description	Number required for numeric characters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

special-character *number*

Context	**configure system security user-params local-user password complexity-rules required**
Description	Number required for special characters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

uppercase *number*

Context	**configure system security user-params local-user password complexity-rules required**
Description	Number required for uppercase letters
Range	1 to 10
Introduced	16.0.R1
Notes	This element is part of a choice

history-size *number*

Context	**configure system security user-params local-user password**
Description	New password to match against previous ones
Range	0 to 20
Introduced	16.0.R1

minimum-age *number*

Context	**configure system security user-params local-user password**
Description	Minimum age required for a password before changing it
Range	0 to 86400
Default	600
Units	seconds
Introduced	16.0.R1

minimum-change *number*

Context	**configure system security user-params local-user password**
Description	Minimum distance required between the old and the new password
Range	1 to 20
Default	5
Introduced	16.0.R1

user [user-name] *string*

Context	**configure system security user-params local-user**
Description	Enter the user context
Introduced	16.0.R1

[user-name] *string*

Context	**configure system security user-params local-user user** *string*
Description	Local user name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

access

Context	**configure system security user-params local-user user** *string*
Description	Enter the access context
Introduced	16.0.R1

console *boolean*

Context	**configure system security user-params local-user user** *string* **access**
Description	Allow console access (serial port or Telnet)
Default	false
Introduced	16.0.R1

ftp *boolean*

Context	**configure system security user-params local-user user** *string* **access**
Description	Allow FTP access
Default	false
Introduced	16.0.R1

grpc *boolean*

Context	**configure system security user-params local-user user** *string* **access**
Description	Allow gRPC access
Default	false
Introduced	16.0.R1

netconf *boolean*

Context	**configure system security user-params local-user user** *string* **access**
Description	Allow NETCONF session access
Default	false
Introduced	16.0.R1

snmp *boolean*

Context	**configure system security user-params local-user user** *string* **access**
Description	Allow SNMP access
Default	false
Introduced	16.0.R1

cli-engine *keyword*

Context	**configure system security user-params local-user user** *string*
Description	User level override for CLI engine access
Options	classic-cli, md-cli
Max. Elements	2
Introduced	16.0.R1
Notes	This element is ordered by user

console

Context	**configure system security user-params local-user user** *string*
Description	Enter the console context
Introduced	16.0.R1

cannot-change-password *boolean*

Context	**configure system security user-params local-user user** *string* **console**
Description	Change password privileges
Default	false
Introduced	16.0.R1

login-exec (*string* | *string* | *string* | *string*)

Context	**configure system security user-params local-user user** *string* **console**
Description	File to execute when a user successfully logs in
Introduced	16.0.R1

member *string*

Context	**configure system security user-params local-user user** *string* **console**
Description	User profiles for this user
Reference	configure **system security aaa local-profiles profile** *string*
Max. Elements	8
Introduced	16.0.R1
Notes	This element is ordered by user

new-password-at-login *boolean*

Context	**configure system security user-params local-user user** *string* **console**
Description	Prompt a user to change password at next console login
Default	false
Introduced	16.0.R1

home-directory (*sat-url* | *cflash-without-slot-url*)

Context	**configure system security user-params local-user user** *string*
Description	Home directory for the user
Introduced	16.0.R1

password *hashed-leaf*

Context	**configure system security user-params local-user user** *string*
Description	Password to authenticate the user for console and FTP access
String Length	3 to 60
Introduced	16.0.R1
Notes	This element is mandatory

public-keys

Context	**configure system security user-params local-user user** *string*
Description	Enter the public-keys context
Introduced	16.0.R1

ecdsa

Context	**configure system security user-params local-user user** *string* **public-keys**
Description	Enter the ecdsa context
Introduced	16.0.R1

ecdsa-key [ecdsa-public-key-id] *number*

Context	**configure system security user-params local-user user** *string* **public-keys ecdsa**
Description	Enter the ecdsa-key context
Introduced	16.0.R1

[ecdsa-public-key-id] *number*

Context	**configure system security user-params local-user user** *string* **public-keys ecdsa ecdsa-key** *number*
Description	Number of the Secure Shell version 2 (SSHv2) ECDSA public key that is associated with system user
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system security user-params local-user user** *string* **public-keys ecdsa ecdsa-key** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

key-value *string*

Context	**configure system security user-params local-user user** *string* **public-keys ecdsa ecdsa-key** *number*
Description	Number of the Secure Shell version 2 (SSHv2) ECDSA public key that is associated with system user
String Length	1 to 255
Introduced	16.0.R1

rsa

Context	**configure system security user-params local-user user** *string* **public-keys**
Description	Enter the rsa context
Introduced	16.0.R1

rsa-key [rsa-public-key-id] *number*

Context	**configure system security user-params local-user user** *string* **public-keys rsa**
Description	Enter the rsa-key context
Introduced	16.0.R1

[rsa-public-key-id] *number*

Context	**configure system security user-params local-user user** *string* **public-keys rsa rsa-key** *number*
Description	Number of the Secure Shell version 2 (SSHv2) RSA public key that is associated with system user
Range	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system security user-params local-user user** *string* **public-keys rsa rsa-key** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

key-value *string*

Context	**configure system security user-params local-user user** *string* **public-keys rsa rsa-key** *number*
Description	Number of the Secure Shell version 2 (SSHv2) RSA public key that is associated with system user
String Length	1 to 800
Introduced	16.0.R1

restricted-to-home *boolean*

Context	**configure system security user-params local-user user** *string*
Description	Users prevented from navigating above their home directories to access file
Default	false
Introduced	16.0.R1

snmp

Context	**configure system security user-params local-user user** *string*
Description	Enter the snmp context
Introduced	16.0.R1

authentication

Context	**configure system security user-params local-user user** *string* **snmp**
Description	Enter the authentication context
Introduced	16.0.R1

authentication-key *encrypted-leaf-hex-without-prefix*

Context	**configure system security user-params local-user user** *string* **snmp authentication**
Description	Authentication key for authentication protocol
String Length	1 to 54
Introduced	16.0.R1

authentication-protocol *keyword*

Context	**configure system security user-params local-user user** *string* **snmp authentication**
Description	Authentication protocol
Options	md5, sha
Introduced	16.0.R1

privacy

Context	**configure system security user-params local-user user** *string* **snmp authentication**
Description	Enter the privacy context
Introduced	16.0.R1

privacy-key *encrypted-leaf-hex-without-prefix*

Context	**configure system security user-params local-user user** *string* **snmp authentication privacy**
Description	Localized privacy key for authentication
String Length	1 to 50
Introduced	16.0.R1
Notes	This element is mandatory

privacy-protocol *keyword*

Context	**configure system security user-params local-user user** *string* **snmp authentication privacy**
Description	Encryption protocol for authentication
Options	des, aes-128-cfb
Introduced	16.0.R1
Notes	This element is mandatory

group *string*

Context	**configure system security user-params local-user user** *string* **snmp**
Description	User to associate with a group name
String Length	1 to 32
Introduced	16.0.R1

vprn-network-exceptions

Context	**configure system security**
Description	Enter the vprn-network-exceptions context
Introduced	16.0.R1

count *number*

Context	**configure system security vprn-network-exceptions**
Description	Number of MPLS exception messages to be received in the assigned time frame
Range	10 to 1000
Default	100
Introduced	16.0.R1

window *number*

Context	**configure system security vprn-network-exceptions**
Description	Time frame to limit the number of MPLS exception messages issued per time frame
Range	1 to 60
Default	10
Units	seconds
Introduced	16.0.R1

selective-fib *boolean*

Context	**configure system**
Description	FIB assigned to the system
Default	false
Introduced	16.0.R1

software-repository [repository-name] *string*

Context	**configure system**
Description	Enter the software-repository context
Introduced	16.0.R1

[repository-name] *string*

Context	**configure system software-repository** *string*
Description	Unique name for the system software repository
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system software-repository** *string*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

primary-location *string*

Context	**configure system software-repository** *string*
Description	Primary location for the files in the software repository
String Length	1 to 180
Introduced	16.0.R1

secondary-location *string*

Context	**configure system software-repository** *string*
Description	Secondary location for the files in the software repository
String Length	1 to 180
Introduced	16.0.R1

tertiary-location *string*

Context	**configure system software-repository** *string*
Description	Tertiary location for the files in the software repository
String Length	1 to 180
Introduced	16.0.R1

thresholds

Context	**configure system**
Description	Enter the thresholds context
Introduced	16.0.R1

cflash-cap-alarm-percent [cflash-id] *thresholds-cflash-url*

Context	**configure system thresholds**
Description	Enter the cflash-cap-alarm-percent context
Introduced	16.0.R1

[cflash-id] *thresholds-cflash-url*

Context	**configure system thresholds cflash-cap-alarm-percent** *thresholds-cflash-url*
Description	Capacity that monitors the cflash (compact flash) assigned in this command
String Length	1 to 200
Introduced	16.0.R1
Notes	This element is part of a list key

falling-threshold *number*

Context	**configure system thresholds cflash-cap-alarm-percent** *thresholds-cflash-url*
Description	Specifies the falling threshold percentage value for sampled statistics of cflash capacity alarm entry.
Range	0 to 100
Units	percent
Introduced	16.0.R1

interval *number*

Context	**configure system thresholds cflash-cap-alarm-percent** *thresholds-cflash-url*
Description	Interval for the cflash capacity alarm
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

rising-threshold *number*

Context	**configure system thresholds cflash-cap-alarm-percent** *thresholds-cflash-url*
Description	Specifies the rising threshold percentage value for sampled statistics of cflash capacity alarm entry.
Range	0 to 100
Units	percent
Introduced	16.0.R1
Notes	This element is mandatory

rmon-event-type *keyword*

Context	**configure system thresholds cflash-cap-alarm-percent** *thresholds-cflash-url*
Description	Notification type for the cflash capacity alarm
Options	none, log, trap, both
Introduced	16.0.R1

startup-alarm *keyword*

Context	**configure system thresholds cflash-cap-alarm-percent** *thresholds-cflash-url*
Description	Type of the start-up alarm for the cflash capacity alarm
Options	rising, falling, either
Introduced	16.0.R1

cflash-cap-warn-percent [cflash-id] *thresholds-cflash-url*

Context	**configure system thresholds**
Description	Enter the cflash-cap-warn-percent context
Introduced	16.0.R1

[cflash-id] *thresholds-cflash-url*

Context	**configure system thresholds cflash-cap-warn-percent** *thresholds-cflash-url*
Description	Capacity that monitors the cflash (compact flash) assigned in this command
String Length	1 to 200
Introduced	16.0.R1
Notes	This element is part of a list key

falling-threshold *number*

Context	**configure system thresholds cflash-cap-warn-percent** *thresholds-cflash-url*
Description	Specifies the falling threshold percentage value for sampled statistics of cflash capacity alarm entry.
Range	0 to 100
Units	percent
Introduced	16.0.R1

interval *number*

Context	**configure system thresholds cflash-cap-warn-percent** *thresholds-cflash-url*
Description	Interval for the cflash capacity alarm
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

rising-threshold *number*

Context	**configure system thresholds cflash-cap-warn-percent** *thresholds-cflash-url*
Description	Specifies the rising threshold percentage value for sampled statistics of cflash capacity alarm entry.
Range	0 to 100
Units	percent
Introduced	16.0.R1
Notes	This element is mandatory

rmon-event-type *keyword*

Context	**configure system thresholds cflash-cap-warn-percent** *thresholds-cflash-url*
Description	Notification type for the cflash capacity alarm
Options	none, log, trap, both
Introduced	16.0.R1

startup-alarm *keyword*

Context	**configure system thresholds cflash-cap-warn-percent** *thresholds-cflash-url*
Description	Type of the start-up alarm for the cflash capacity alarm
Options	rising, falling, either
Introduced	16.0.R1

kb-memory-use-alarm

Context	**configure system thresholds**
Description	Enter the kb-memory-use-alarm context
Introduced	16.0.R4

falling-threshold *number*

Context	**configure system thresholds kb-memory-use-alarm**
Description	Specifies the threshold for the sampled statistic for the falling threshold event.
Range	-2147483648 to 2147483647
Introduced	16.0.R4

interval *number*

Context	**configure system thresholds kb-memory-use-alarm**
Description	Interval for the cflash capacity alarm
Range	1 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory

rising-threshold *number*

Context	**configure system thresholds kb-memory-use-alarm**
Description	Specifies the threshold for the sampled statistic for the rising threshold event.
Range	-2147483648 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory

rmon-event-type *keyword*

Context	**configure system thresholds kb-memory-use-alarm**
Description	Notification type for the cflash capacity alarm
Options	none, log, trap, both
Introduced	16.0.R4

startup-alarm *keyword*

Context	**configure system thresholds kb-memory-use-alarm**
Description	Type of the start-up alarm for the cflash capacity alarm
Options	rising, falling, either
Introduced	16.0.R4

kb-memory-use-warn

Context	**configure system thresholds**
Description	Enter the kb-memory-use-warn context
Introduced	16.0.R4

falling-threshold *number*

Context	**configure system thresholds kb-memory-use-warn**
Description	Specifies the threshold for the sampled statistic for the falling threshold event.
Range	-2147483648 to 2147483647
Introduced	16.0.R4

interval *number*

Context	**configure system thresholds kb-memory-use-warn**
Description	Interval for the cflash capacity alarm
Range	1 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory

rising-threshold *number*

Context	**configure system thresholds kb-memory-use-warn**
Description	Specifies the threshold for the sampled statistic for the rising threshold event.
Range	-2147483648 to 2147483647
Introduced	16.0.R4
Notes	This element is mandatory

rmon-event-type *keyword*

Context	**configure system thresholds kb-memory-use-warn**
Description	Notification type for the cflash capacity alarm
Options	none, log, trap, both
Introduced	16.0.R4

startup-alarm *keyword*

Context	**configure system thresholds kb-memory-use-warn**
Description	Type of the start-up alarm for the cflash capacity alarm
Options	rising, falling, either
Introduced	16.0.R4

rmon

Context	**configure system thresholds**
Description	Enter the rmon context
Introduced	16.0.R1

alarm [rmon-alarm-id] *number*

Context	**configure system thresholds rmon**
Description	Enter the alarm context
Max. Elements	1200
Introduced	16.0.R1

[rmon-alarm-id] *number*

Context	**configure system thresholds rmon alarm** *number*
Description	Index ID for an entry in the alarm table
Range	0 to 65400
Introduced	16.0.R1
Notes	This element is part of a list key

falling-event *number*

Context	**configure system thresholds rmon alarm** *number*
Description	Identifier of the rmon>event to perform an action for a falling threshold crossing event
Range	0 to 65400
Introduced	16.0.R1

falling-threshold *number*

Context	**configure system thresholds rmon alarm** *number*
Description	Specifies the threshold for the sampled statistic for the falling threshold event.
Range	-2147483648 to 2147483647
Introduced	16.0.R1

interval *number*

Context	**configure system thresholds rmon alarm** *number*
Description	Interval when data is sampled and compared with the rising and falling thresholds
Range	1 to 2147483647
Introduced	16.0.R1
Notes	This element is mandatory

owner *string*

Context	**configure system thresholds rmon alarm** *number*
Description	Owner that created this entry and uses the resources
String Length	1 to 80
Default	TiMOS CLI
Introduced	16.0.R1

rising-event *number*

Context	**configure system thresholds rmon alarm** *number*
Description	Identifier of the rmon>event to perform an action for a rising threshold crossing event
Range	0 to 65400
Introduced	16.0.R1

rising-threshold *number*

Context	**configure system thresholds rmon alarm** *number*
Description	Specifies the threshold for the sampled statistic for the rising threshold event.
Range	-2147483648 to 2147483647
Introduced	16.0.R1

sample-type *keyword*

Context	**configure system thresholds rmon alarm** *number*
Description	Method to sample the selected variable and calculate the value comparing against the thresholds
Options	absolute, delta
Introduced	16.0.R1

startup-alarm *keyword*

Context	**configure system thresholds rmon alarm** *number*
Description	Alarm to send when this entry is first set to valid
Options	rising, falling, either
Introduced	16.0.R1

variable-oid *string*

Context	**configure system thresholds rmon alarm** *number*
Description	Object identifier to sample the specific variable
String Length	1 to 255
Introduced	16.0.R1
Notes	This element is mandatory

event [rmon-event-id] *number*

Context	**configure system thresholds rmon**
Description	Enter the event context
Max. Elements	1200
Introduced	16.0.R1

[rmon-event-id] *number*

Context	**configure system thresholds rmon event** *number*
Description	Index ID for an entry in the event table
Range	1 to 65400
Introduced	16.0.R1
Notes	This element is part of a list key

description *string*

Context	**configure system thresholds rmon event** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

event-type *keyword*

Context	**configure system thresholds rmon event** *number*
Description	Type of notification action to be taken when this event occurs
Options	none, log, trap, both
Introduced	16.0.R1

owner *string*

Context	**configure system thresholds rmon event** *number*
Description	Owner that created this entry and uses the resources
String Length	1 to 80
Default	TiMOS CLI
Introduced	16.0.R1

time

Context	**configure system**
Description	Enter the time context
Introduced	16.0.R1

dst-zone [summer-time-zone] *string*

Context	**configure system time**
Description	Enter the dst-zone context
Max. Elements	1
Introduced	16.0.R1

[summer-time-zone] *string*

Context	**configure system time dst-zone** *string*
Description	Name of a summer time zone
String Length	1 to 5
Introduced	16.0.R1
Notes	This element is part of a list key

end

Context	**configure system time dst-zone** *string*
Description	Enter the end context
Introduced	16.0.R1

day *keyword*

Context	**configure system time dst-zone** *string* **end**
Description	Day of the week when the daylight savings time setting ends
Default	sunday
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Introduced	16.0.R1

hours-minutes *hours-minutes-twenty-four*

Context	**configure system time dst-zone** *string* **end**
Description	Hour and number of minutes after which the daylight savings time ends
String Length	5
Default	00:00
Introduced	16.0.R1

month *keyword*

Context	**configure system time dst-zone** *string* **end**
Description	Month of the week when the daylight savings time setting ends
Default	january
Options	january, february, march, april, may, june, july, august, september, october, november, december
Introduced	16.0.R1

week *keyword*

Context	**configure system time dst-zone** *string* **end**
Description	Week of the month when the daylight savings time setting ends
Default	first
Options	first, second, third, fourth, last
Introduced	16.0.R1

offset *number*

Context	**configure system time dst-zone** *string*
Description	Offset for summer time setting
Range	0 to 60
Default	60
Units	minutes
Introduced	16.0.R1

start

Context	**configure system time dst-zone** *string*
Description	Enter the start context
Introduced	16.0.R1

day *keyword*

Context	**configure system time dst-zone** *string* **start**
Description	Day of the week when the daylight savings time setting starts
Default	sunday
Options	sunday, monday, tuesday, wednesday, thursday, friday, saturday
Introduced	16.0.R1

hours-minutes *hours-minutes-twenty-four*

Context	**configure system time dst-zone** *string* **start**
Description	Hour and number of minutes after which the daylight savings time starts
String Length	5
Default	00:00
Introduced	16.0.R1

month *keyword*

Context	**configure system time dst-zone** *string* **start**
Description	Month of the week when the daylight savings time setting starts
Default	january
Options	january, february, march, april, may, june, july, august, september, october, november, december
Introduced	16.0.R1

week *keyword*

Context	**configure system time dst-zone** *string* **start**
Description	Week of the month when the daylight savings time setting starts
Default	first
Options	first, second, third, fourth, last
Introduced	16.0.R1

ntp

Context	**configure system time**
Description	Enter the ntp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system time ntp**
Description	Administrative state of NTP protocol execution
Default	disable
Options	enable, disable
Introduced	16.0.R1

authentication-check *boolean*

Context	**configure system time ntp**
Description	Reject NTP PDUs that do not match the authentication key-id, type, or key requirements
Default	true
Introduced	16.0.R1

authentication-key [key-id] *number*

Context	**configure system time ntp**
Description	Enter the authentication-key context
Introduced	16.0.R1

[key-id] *number*

Context	**configure system time ntp authentication-key** *number*
Description	Index of the NTP authentication key table that uniquely identifies an authentication key and type
Range	1 to 255
Introduced	16.0.R1
Notes	This element is part of a list key

key *encrypted-leaf*

Context	**configure system time ntp authentication-key** *number*
Description	Key to authenticate NTP packets
String Length	1 to 70
Introduced	16.0.R1
Notes	This element is mandatory

type *keyword*

Context	**configure system time ntp authentication-key** *number*
Description	Type of authentication method to authenticate NTP packet
Options	des, message-digest
Introduced	16.0.R1
Notes	This element is mandatory

broadcast [router-instance] *string* **interface-name** *interface-name*

Context	**configure system time ntp**
Description	Enter the broadcast context
Introduced	16.0.R1

[router-instance] *string*

Context	**configure system time ntp broadcast** *string* **interface-name** *interface-name*
Description	Administrative name for this virtual router
Reference	configure **router** *string*
Introduced	16.0.R1
Notes	This element is part of a list key

interface-name *interface-name*

Context	**configure system time ntp broadcast** *string* **interface-name** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

key-id *string*

Context	**configure system time ntp broadcast** *string* **interface-name** *interface-name*
Description	Specifies the key-id of the authentication key and its authentication type used by this node to receive and transmit NTP packets to and from an NTP node.
Reference	configure **system time ntp authentication-key** *number*
Introduced	16.0.R1

ttl *number*

Context	**configure system time ntp broadcast** *string* **interface-name** *interface-name*
Description	TTL value of messages transmitted by this broadcast address
Range	1 to 255
Default	127
Introduced	16.0.R1

version *number*

Context	**configure system time ntp broadcast** *string* **interface-name** *interface-name*
Description	NTP version number generated or accepted by this node in NTP packets
Range	2 to 4
Default	4
Introduced	16.0.R1

broadcast-client [router-instance] *string* **interface-name** *interface-name*

Context	**configure system time ntp**
Description	Enter the broadcast-client context
Introduced	16.0.R1

[router-instance] *string*

Context	**configure system time ntp broadcast-client** *string* **interface-name** *interface-name*
Description	Administrative name for this virtual router
Introduced	16.0.R1
Notes	This element is part of a list key

interface-name *interface-name*

Context	**configure system time ntp broadcast-client** *string* **interface-name** *interface-name*
Description	Router interface name
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

authenticate *boolean*

Context	**configure system time ntp broadcast-client** *string* **interface-name** *interface-name*
Description	NTP PDUs authentication required when acting as a broadcast client
Default	false
Introduced	16.0.R1

multicast

Context	**configure system time ntp**
Description	Enter the multicast context
Introduced	16.0.R1

key-id *string*

Context	**configure system time ntp multicast**
Description	Specifies the key-id of the authentication key and its authentication type used by this node to receive and transmit NTP packets to and from an NTP node.
Reference	configure **system time ntp authentication-key** *number*
Introduced	16.0.R1

version *number*

Context	**configure system time ntp multicast**
Description	Specifies the NTP version number generated or accepted by this node in NTP packets.
Range	2 to 4
Default	4
Introduced	16.0.R1

multicast-client

Context	**configure system time ntp**
Description	Enter the multicast-client context
Introduced	16.0.R1

authenticate *boolean*

Context	**configure system time ntp multicast-client**
Description	Authentication of NTP PDUs required when acting as a client
Default	false
Introduced	16.0.R1

ntp-server

Context	**configure system time ntp**
Description	Enter the ntp-server context
Introduced	16.0.R1

authenticate *boolean*

Context	**configure system time ntp ntp-server**
Description	Authentication of NTP PDUs when acting as a server
Default	false
Introduced	16.0.R1

peer [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **router-instance** *string*

Context	**configure system time ntp**
Description	Enter the peer context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system time ntp peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **router-instance** *string*
Description	Identifies a node that will provide time to the NTP client of this system.
Introduced	16.0.R4
Notes	This element is part of a list key

router-instance *string*

Context	**configure system time ntp peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **router-instance** *string*
Description	Routing context containing the interface
Introduced	16.0.R4
Notes	This element is part of a list key

key-id *string*

Context	**configure system time ntp peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **router-instance** *string*
Description	Specifies the key-id of the authentication key and its authentication type used by this node to receive and transmit NTP packets to and from an NTP node.
Reference	configure **system time ntp authentication-key** *number*
Introduced	16.0.R1

prefer *boolean*

Context	**configure system time ntp peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **router-instance** *string*
Description	NTP server from which is preferred to receive time
Default	false
Introduced	16.0.R1

version *number*

Context	**configure system time ntp peer** (*ipv4-address-no-zone* | *ipv6-address-no-zone*) **router-instance** *string*
Description	Specifies the NTP version number generated or accepted by this node in NTP packets.
Range	2 to 4
Default	4
Introduced	16.0.R1

server [ip-address] (*union* | *keyword*) **router-instance** *string*

Context	**configure system time ntp**
Description	Enter the server context
Introduced	16.0.R1

[ip-address] (*union* | *keyword*)

Context	**configure system time ntp server** (*union* | *keyword*) **router-instance** *string*
Description	Node that provides time to the NTP client of this system
Options	ptp
Introduced	16.0.R1
Notes	This element is part of a list key

router-instance *string*

Context	**configure system time ntp server** (*union* | *keyword*) **router-instance** *string*
Description	Routing context containing the interface
Introduced	16.0.R4
Notes	This element is part of a list key

key-id *string*

Context	**configure system time ntp server** (*union* | *keyword*) **router-instance** *string*
Description	Specifies the key-id of the authentication key and its authentication type used by this node to receive and transmit NTP packets to and from an NTP node.
Reference	configure **system time ntp authentication-key** *number*
Introduced	16.0.R1

prefer *boolean*

Context	**configure system time ntp server** (*union* | *keyword*) **router-instance** *string*
Description	NTP server from which is preferred to receive time
Default	false
Introduced	16.0.R1

version *number*

Context	**configure system time ntp server** (*union* | *keyword*) **router-instance** *string*
Description	Specifies the NTP version number generated or accepted by this node in NTP packets.
Range	2 to 4
Default	4
Introduced	16.0.R1

prefer-local-time *boolean*

Context	**configure system time**
Description	Use local time over UTC time in the system
Default	false
Introduced	16.0.R1

sntp

Context	**configure system time**
Description	Enter the sntp context
Introduced	16.0.R1

admin-state *keyword*

Context	**configure system time sntp**
Description	Administrative state of the SNTP protocol execution
Default	disable
Options	enable, disable
Introduced	16.0.R1

server [ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system time sntp**
Description	Enter the server context
Introduced	16.0.R1

[ip-address] (*ipv4-address-no-zone* | *ipv6-address-no-zone*)

Context	**configure system time sntp server** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Node that provides time to the NTP client of this system
Introduced	16.0.R1
Notes	This element is part of a list key

interval *number*

Context	**configure system time sntp server** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Frequency of querying the server
Range	64 to 1024
Default	64
Units	seconds
Introduced	16.0.R1

prefer *boolean*

Context	**configure system time sntp server** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	Preference value for this SNTP server
Default	false
Introduced	16.0.R1

version *number*

Context	**configure system time sntp server** (*ipv4-address-no-zone* | *ipv6-address-no-zone*)
Description	SNTP version supported by this server
Range	1 to 3
Default	3
Introduced	16.0.R1

sntp-state *keyword*

Context	**configure system time sntp**
Description	Mode for Simple Network Time Protocol (SNTP)
Default	unicast
Options	unicast, broadcast
Introduced	16.0.R1

zone

Context	**configure system time**
Description	Enter the zone context
Introduced	16.0.R1

non-standard

Context	**configure system time zone**
Description	Enter the **non-standard** context
Introduced	16.0.R1

name *string*

Context	**configure system time zone non-standard**
Description	Active non-standard time zone in this managed system
String Length	1 to 5
Introduced	16.0.R1
Notes	This element is part of a choice

offset *hours-minutes-with-range*

Context	**configure system time zone non-standard**
Description	Number of hours and minutes by which the time zone offsets from UTC
String Length	5 to 6
Introduced	16.0.R1
Notes	This element is part of a choice

standard

Context	**configure system time zone**
Description	Enter the **standard** context
Introduced	16.0.R1

name *keyword*

Context	**configure system time zone standard**
Description	Active standard time zone in this managed system
Default	utc
Options	hst, akst, pst, mst, cst, est, ast, nst, utc, gmt, wet, cet, eet, msk, msd, awst, acst, aest, nzst
Introduced	16.0.R1
Notes	This element is part of a choice

transmission-profile [name] *string*

Context	**configure system**
Description	Enter the transmission-profile context
Introduced	16.0.R1

[name] *string*

Context	**configure system transmission-profile** *string*
Description	Name of file transmission profile
String Length	1 to 32
Introduced	16.0.R1
Notes	This element is part of a list key

ipv4-source-address *ipv4-unicast-address*

Context	**configure system transmission-profile** *string*
Description	IPv4 source address of the file transmission connections
Introduced	16.0.R1

ipv6-source-address *ipv6-address*

Context	**configure system transmission-profile** *string*
Description	IPv6 source address of the file transmission connections
Introduced	16.0.R1

redirection *number*

Context	**configure system transmission-profile** *string*
Description	Maximum level of redirection
Range	1 to 8
Introduced	16.0.R1

retry *number*

Context	**configure system transmission-profile** *string*
Description	Number of attempts to reconnecting to the server
Range	1 to 256
Introduced	16.0.R1

router-instance *router-instance-base-management-vprn-loose*

Context	**configure system transmission-profile** *string*
Description	Router instance that hosts the file transmission connection
String Length	1 to 64
Default	Base
Introduced	16.0.R1

timeout *number*

Context	**configure system transmission-profile** *string*
Description	Timeout for a response from the server
Range	1 to 3600
Default	60
Units	seconds
Introduced	16.0.R1

39 test-oam Commands

configure
- — **test-oam**
  - — **twamp**
    - — **server**
      - — **admin-state** *keyword*
      - — **inactivity-timeout** *number*
      - — **max-connections** *number*
      - — **max-sessions** *number*
      - — **prefix** (*ipv4-prefix* | *ipv6-prefix*)
        - — **description** *string*
        - — **max-connections** *number*
        - — **max-sessions** *number*
    - — **twamp-light**
      - — **inactivity-timeout** *number*

39.1 test-oam Command Descriptions

test-oam

Context **configure**
Description Enter the test-oam context
Introduced 16.0.R4

twamp

Context **configure test-oam**
Description Enter the twamp context
Introduced 16.0.R4

server

Context **configure test-oam twamp**
Description Enter the server context
Introduced 16.0.R4

admin-state *keyword*

Context **configure test-oam twamp server**
Description Specifies if the TWAMP server is administratively enabled or disabled
Default disable
Options enable, disable
Introduced 16.0.R4

inactivity-timeout *number*

Context **configure test-oam twamp server**
Description System wide inactivity timeout for each TWAMP server control connection
Range 60 to 3600
Default 900
Units seconds
Introduced 16.0.R4

max-connections *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure test-oam twamp server**
Description	System wide maximum number of concurrent TWAMP server control connections
Range	0 to 64
Default	32
Introduced	16.0.R4

max-sessions *number*

Warning: Modifying this element will cause the parent element's **admin-state** to be toggled automatically for the new value to take effect.

Context	**configure test-oam twamp server**
Description	System wide maximum number of concurrent TWAMP server test sessions
Range	0 to 128
Default	32
Introduced	16.0.R4

prefix [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure test-oam twamp server**
Description	Enter the prefix context
Max. Elements	100
Introduced	16.0.R4

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure test-oam twamp server prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Prefix to be matched against a TWAMP client address Best-fit is used when matching a TWAMP client's IP address against the set of configured prefixes. For example, suppose the first row of this table has the prefix 138.120.0.0/16, and the second row has the prefix 138.120.214.0/24. The TWAMP client address 138.120.214.52 matches the second row.
Introduced	16.0.R4
Notes	This element is part of a list key

description *string*

Context	**configure test-oam twamp server prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Description for the TWAMP prefix identified by the key value
String Length	1 to 80
Introduced	16.0.R4

max-connections *number*

Context	**configure test-oam twamp server prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Maximum number of concurrent TWAMP control connections allowed for the TWAMP prefix identified by the index values In addition, the number of concurrent TWAMP control connections for this prefix is limited by the system maximum '/configure test-oam twamp server max-connections'.
Range	0 to 64
Default	32
Introduced	16.0.R4

max-sessions *number*

Context	**configure test-oam twamp server prefix** (*ipv4-prefix* | *ipv6-prefix*)
Description	Maximum number of concurrent TWAMP test sessions allowed for the TWAMP prefix identified by the key value In addition, the number of concurrent TWAMP test sessions for this prefix is limited by the system maximum '/configure test-oam twamp server max-sessions'.
Range	0 to 128
Default	32
Introduced	16.0.R4

twamp-light

Context	**configure test-oam twamp**
Description	Enter the twamp-light context
Introduced	16.0.R4

inactivity-timeout *number*

Context	**configure test-oam twamp twamp-light**
Description	System inactivity timeout for TWAMP-Light reflectors A TWAMP-Light reflector replies to TWAMP-Test PDUs. When a reflector sees a TWAMP-Test PDU for a new session (i.e. a {source IP address, source UDP port, destination IP address} triple which is not known to the reflector), the reflector allocates a record for the session. The record is used to ensure that reply PDUs sent for the session have consecutive sequence numbers. When a reflector sees 'inactivity-timeout' seconds pass without receiving a TWAMP-Test PDU for a particular session, an inactivity timeout has occurred, so the record allocated to the session is freed.
Range	10 to 100
Default	100
Units	seconds
Introduced	16.0.R4

40 vrrp Commands

configure
- **vrrp**
  - **policy** *number*
    - **admin-state** *keyword*
    - **context** *service-name*
    - **delta-in-use-limit** *number*
    - **description** *string*
    - **priority-event**
      - **host-unreachable** (*ipv4-address* | *ipv6-address*)
        - **drop-count** *number*
        - **hold-clear** *number*
        - **hold-set** *number*
        - **padding-size** *number*
        - **priority**
          - **event-type** *keyword*
          - **priority-level** *number*
        - **request-interval** *number*
        - **timeout** *number*
      - **lag-port-down** *number*
        - **hold-clear** *number*
        - **hold-set** *number*
        - **number-down** *number*
          - **priority**
            - **event-type** *keyword*
            - **priority-level** *number*
        - **weight-down** *number*
          - **priority**
            - **event-type** *keyword*
            - **priority-level** *number*
      - **mc-ipsec-non-forwarding** *number*
        - **hold-clear** *number*
        - **hold-set** *number*
        - **priority**
          - **event-type** *keyword*
          - **priority-level** *number*
      - **port-down** *port*
        - **hold-clear** *number*
        - **hold-set** *number*
        - **priority**
          - **event-type** *keyword*
          - **priority-level** *number*
      - **route-unknown** (*ipv4-prefix* | *ipv6-prefix*)
        - **hold-clear** *number*
        - **hold-set** *number*
        - **less-specific**
          - **allow-default** *boolean*
        - **priority**
          - **event-type** *keyword*
          - **priority-level** *number*
        - **protocol** *keyword*

40.1 vrrp Command Descriptions

vrrp

Context	**configure**
Description	Enter the vrrp context
Introduced	16.0.R1

policy [policy-id] *number*

Context	**configure vrrp**
Description	Enter the policy context
Introduced	16.0.R1

[policy-id] *number*

Context	**configure vrrp policy** *number*
Description	Policy ID that is be used when creating a Priority Control Policy
Range	1 to 9999
Introduced	16.0.R1
Notes	This element is part of a list key

admin-state *keyword*

Context	**configure vrrp policy** *number*
Description	Administrative state of VRRP policy
Default	enable
Options	enable, disable
Introduced	16.0.R1

context *service-name*



Warning: Modifying this element will cause the parent element to be recreated automatically for the new value to take effect.

Context	**configure vrrp policy** *number*
Description	The value specifies the service name to which this policy applies. If not configured, this policy does not apply to a service, but to the base router instance.
String Length	1 to 64
Introduced	16.0.R1

delta-in-use-limit *number*

Context	**configure vrrp policy** *number*
Description	Limit on the in-use priority that is derived from delta priority control events
Range	1 to 254
Default	1
Introduced	16.0.R1

description *string*

Context	**configure vrrp policy** *number*
Description	Text description
String Length	1 to 80
Introduced	16.0.R1

priority-event

Context	**configure vrrp policy** *number*
Description	Enter the priority-event context
Introduced	16.0.R1

host-unreachable [ip-address] (*ipv4-address* | *ipv6-address*)

Context	**configure vrrp policy** *number* **priority-event**
Description	Enter the host-unreachable context
Introduced	16.0.R1

[ip-address] (*ipv4-address* | *ipv6-address*)

Context	**configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)
Description	Priority control event that monitors the ability to receive ICMP Echo Reply packets from a host
Introduced	16.0.R1
Notes	This element is part of a list key

drop-count *number*

Context	**configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)
Description	Limit on number of consecutive ICMP echo request transmit failures
Range	1 to 60
Default	3
Introduced	16.0.R1

hold-clear *number*

Context	**configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)
Description	Delay time for a cleared event on associated virtual router instance
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

hold-set *number*

Context	**configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)
Description	Hold time before transitioning to cleared state to dampen flapping events
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

padding-size *number*

Context **configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)

Description Packet length padding of the ICMP packet

Range 0 to 16384

Default 56

Units bytes

Introduced 16.0.R1

priority

Context **configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)

Description Enter the priority context

Introduced 16.0.R1

event-type *keyword*

Context **configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*) **priority**

Description Effect of the priority-level value on the base priority value

Default delta

Options delta, explicit

Introduced 16.0.R1

priority-level *number*

Context **configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*) **priority**

Description Priority level associated with this event

Range 1 to 254

Introduced 16.0.R1

request-interval *number*

Context	**configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)
Description	Time interval between consecutive ICMP echo requests
Range	1 to 60
Default	1
Units	seconds
Introduced	16.0.R1

timeout *number*

Context	**configure vrrp policy** *number* **priority-event host-unreachable** (*ipv4-address* | *ipv6-address*)
Description	Timeout for ICMP echo request messages
Range	1 to 60
Default	1
Units	seconds
Introduced	16.0.R1

lag-port-down [lag-id] *number*

Context	**configure vrrp policy** *number* **priority-event**
Description	Enter the lag-port-down context
Introduced	16.0.R1

[lag-id] *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number*
Description	LAG ID for the reduced LAG ports
Range	1 to 800
Introduced	16.0.R1
Notes	This element is part of a list key

hold-clear *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number*
Description	Delay time for a cleared event on associated virtual router instance
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

hold-set *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number*
Description	Hold time before transitioning to cleared state to dampen flapping events
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

number-down [number-of-lag-ports-down] *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number*
Description	Enter the number-down context
Introduced	16.0.R1

[number-of-lag-ports-down] *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **number-down** *number*
Description	Number of LAG ports down that create a set event threshold
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

priority

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **number-down** *number*
Description	Enter the priority context
Introduced	16.0.R1

event-type *keyword*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **number-down** *number* **priority**
Description	Effect of the priority-level value on the base priority value
Default	delta
Options	delta, explicit
Introduced	16.0.R1

priority-level *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **number-down** *number* **priority**
Description	Priority level associated with this event
Range	1 to 254
Introduced	16.0.R1

weight-down [lag-ports-down-weight] *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number*
Description	Enter the weight-down context
Introduced	16.0.R1

[lag-ports-down-weight] *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **weight-down** *number*
Description	LAG ID for the reduced LAG ports
Range	1 to 64
Introduced	16.0.R1
Notes	This element is part of a list key

priority

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **weight-down** *number*
Description	Enter the priority context
Introduced	16.0.R1

event-type *keyword*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **weight-down** *number* **priority**
Description	Effect of the priority-level value on the base priority value
Default	delta
Options	delta, explicit
Introduced	16.0.R1

priority-level *number*

Context	**configure vrrp policy** *number* **priority-event lag-port-down** *number* **weight-down** *number* **priority**
Description	Priority level associated with this event
Range	1 to 254
Introduced	16.0.R1

mc-ipsec-non-forwarding [tunnel-group-id] *number*

Context	**configure vrrp policy** *number* **priority-event**
Description	Enter the mc-ipsec-non-forwarding context
Introduced	16.0.R1

[tunnel-group-id] *number*

Context	**configure vrrp policy** *number* **priority-event mc-ipsec-non-forwarding** *number*
Description	Multi-chassis IPSEC tunnel group whose non-forwarding state is monitored by priority control event
Range	1 to 16
Introduced	16.0.R1
Notes	This element is part of a list key

hold-clear *number*

Context	**configure vrrp policy** *number* **priority-event mc-ipsec-non-forwarding** *number*
Description	Delay time for a cleared event on associated virtual router instance
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

hold-set *number*

Context	**configure vrrp policy** *number* **priority-event mc-ipsec-non-forwarding** *number*
Description	Hold time before transitioning to cleared state to dampen flapping events
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

priority

Context	**configure vrrp policy** *number* **priority-event mc-ipsec-non-forwarding** *number*
Description	Enter the priority context
Introduced	16.0.R1

event-type *keyword*

Context	**configure vrrp policy** *number* **priority-event mc-ipsec-non-forwarding** *number* **priority**
Description	Event type
Default	delta
Options	delta, explicit
Introduced	16.0.R1

priority-level *number*

Context	**configure vrrp policy** *number* **priority-event mc-ipsec-non-forwarding** *number* **priority**
Description	Priority level associated with this event
Range	1 to 254
Introduced	16.0.R1

port-down [port-id] *port*

Context	**configure vrrp policy** *number* **priority-event**
Description	Enter the port-down context
Introduced	16.0.R1

[port-id] *port*

Context	**configure vrrp policy** *number* **priority-event port-down** *port*
Description	Port ID for the reduced LAG ports
Introduced	16.0.R1
Notes	This element is part of a list key

hold-clear *number*

Context	**configure vrrp policy** *number* **priority-event port-down** *port*
Description	Delay time for a cleared event on associated virtual router instance
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

hold-set *number*

Context	**configure vrrp policy** *number* **priority-event port-down** *port*
Description	Hold time before transitioning to cleared state to dampen flapping events
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

priority

Context	**configure vrrp policy** *number* **priority-event port-down** *port*
Description	Enter the priority context
Introduced	16.0.R1

event-type *keyword*

Context	**configure vrrp policy** *number* **priority-event port-down** *port* **priority**
Description	Effect of the priority-level value on the base priority value
Default	delta
Options	delta, explicit
Introduced	16.0.R1

priority-level *number*

Context	**configure vrrp policy** *number* **priority-event port-down** *port* **priority**
Description	Priority level associated with this event
Range	1 to 254
Introduced	16.0.R1

route-unknown [ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure vrrp policy** *number* **priority-event**
Description	Enter the route-unknown context
Introduced	16.0.R1

[ip-prefix] (*ipv4-prefix* | *ipv6-prefix*)

Context	**configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*)
Description	IP prefix of the route that is monitored by this priority control event
Introduced	16.0.R1
Notes	This element is part of a list key

hold-clear *number*

Context	**configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*)
Description	Delay time for a cleared event on associated virtual router instance
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

hold-set *number*

Context	**configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*)
Description	Hold time before transitioning to cleared state to dampen flapping events
Range	1 to 86400
Units	seconds
Introduced	16.0.R1

less-specific

Context **configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*)

Description Enter the less-specific context

Introduced 16.0.R1

allow-default *boolean*

Context **configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*) **less-specific**

Description Match on default route

Default false

Introduced 16.0.R1

priority

Context **configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*)

Description Enter the priority context

Introduced 16.0.R1

event-type *keyword*

Context **configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*) **priority**

Description Effect of the priority-level value on the base priority value

Default delta

Options delta, explicit

Introduced 16.0.R1

priority-level *number*

Context **configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*) **priority**

Description Priority level associated with this event

Range 1 to 254

Introduced 16.0.R1

protocol *keyword*

Context	**configure vrrp policy** *number* **priority-event route-unknown** (*ipv4-prefix* | *ipv6-prefix*)
Description	Routing protocol as match criterion
Options	bgp, ospf, isis, rip, static, bgp-vpn
Max. Elements	6
Introduced	16.0.R1

41 Standards and Protocol Support



Note: The information presented is subject to change without notice.

Nokia assumes no responsibility for inaccuracies contained herein.

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IEEE 802.1ax, *Link Aggregation*
IEEE 802.1D, *MAC Bridges*
IEEE 802.1p, *Traffic Class Expediting*
IEEE 802.1Q, *Virtual LANs*
IEEE 802.1s, *Multiple Spanning Trees*
IEEE 802.1w, *Rapid Reconfiguration of Spanning Tree*
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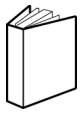
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